## **AUTHOR INDEX**

(Names appearing in capital letters indicate authors of chapters in this volume.)

### A

Abbott, J. A., 229 Abernathy, C. O., 5 Abitabilo, N., 237 Abrahamson, L. J., 6 Abrams, M., 78, 79 Abrass, I. B., 78 Ackman, A., 202 Adamo, N. J., 9 Adams, E. E., 179 Addiego, J. E. Jr., 243 Aerand, T. A., 398 Ahmed, P. I., 459 Ahsen, A., 333 Aisenberg, A. C., 243 Akin, E. W., 430 Akpom, C. A., 79 Alavanja, M., 340, 342-44, 401 Albritton, W. L., 235, 237 ALCALAY, R., 179-99 Alexander, H. J., 398 Alexander, J. K., 165 Alexander, M., 232 Allen, F. R., 430 Allen, H., 262 Allen, J. R., 6, 17 Alter, B. P., 300 Alter, M., 302 Amir, D., 8 Ammann, A. J., 243 Amos, W., 238 Ampola, M. G., 313 Amsel, J., 340, 342, 344 Andelman, J. B., 411 Anderson, D. E., 97 Anderson, F., 78 Anderson, G. D., 264 Anderson, J., 70, 74 Anderson, J. A., 49 Anderson, K. N., 238 Anderson, L. M., 12 Anderson, L. W., 429 Anderson, S., 47, 48 Anderson, W. A. D., 10 Andres, R., 60 Andrews, L. H., 263 Andrews, P., 273 Anthony, G. G., 30 Apgar, J., 11 Applegarth, D. A., 297 ARCHER, J., 445-68 Archer, M., 342 Argo, D. G., 428, 431 Armitage, A. K., 120 Armstrong, B. K., 93, 95, 96 Armstrong, E., 105, 115

Arnhoff, F. N., 456 Aronow, W. S., 159, 162 Ascik, K., 409 Ashford, N. A., 213 Ashikaga, T., 327 Ashley, F., 176 Asire, A. J., 86 Astrup, P., 162 Atkin, C., 333 Atkins, L., 301 Atkinson, J. W., 410 Atkinson, M., 227 Aula, P., 306 Austin, C. A., 315 Austrian, R., 241 Autian, J., 17 Axnick, N. W., 238

### R

Babcock, D. B., 395, 398, 411 Bachman, J. G., 186, 187 Bachrach, L. L., 451, 459 Bacow, L. S., 214, 215 Baden, J. M., 13 Baehner, R., 243 Baer, D., 228-30 Bailar, J. C., 30 Bailar, J. C. III, 90, 91 Bailey, A., 228 Bailey, J. W., 228-30 Bailey, R. M., 230 Baine, N., 411 Baker, H., 65 Balaban, D. J., 78 Baldessarini, R. T., 449 Bales, R. F., 111 Ball, K., 101 Ball, W. L., 3 Ballard, H., 94 Bandura, A., 115, 116 Bane, A. L., 331, 332 Bank, L., 59, 63 Bannerman, R. M., 298 Barcus, F. E., 332 Barnes, J. M., 4 Barnes, L. E., 15 Barnes, R. F., 68, 69 Barnum, D. T., 210 Barone, K. A., 398 Barr, B. S., 13 Barr, G., 262 Barraclough, C., 11 Barrett, R. J., 104 Barsotti, D. A., 6, 17 Barth, P. S., 205 Barth, R. T., 230

Bartolo, R., 328 Barton, R., 450 Bassili, W. R., 240 Bassuk, E. L., 457 Bast, L. P., 329, 331 Batchelor, G. M., 264 Bates, B., 228, 229, 261 Bates, J. E., 372, 422, 429 Bauer, D., 425 Baum, B., 395, 396, 398, 399 Baumann, D., 434 Bausman, H. T., 432 Bawol, R. D., 102, 164 Bean, J. A., 341, 342, 347 Beasley, A. G., 3 Beattie, C. W., 11 Beattie, E. J., 171 Beatty, F. K., 372 Bechmann, D. C., 414 BECK, J. C., 55-83; 59, 62, 63, 71-73, 76, 77, 79 Becker, M. H., 236 Beers, C., 452 Behari, J., 11 Bell, J. C., 238, 242, 243 Bellar, T. A., 393, 394 Bellville, J. W., 13 BENFARI, R. C., 101-28; 103-5, 109, 110, 114, 115, 118, 119 Benirschke, K., 302 Bennett, C. L., 449, 451 Bennett, D., 450, 455 Bennett, J. C., 240 Bennett, J. V., 235 Bentler, E., 284 Berg, G., 407, 409 BERGER, B. B., 359-92 Berger, G., 327 Berger, G. S., 38 Berger, M., 307 Bergin, J. I., 186 Bergmann, K., 68, 69 Berkson, J., 30, 35 Berkvens, J. M., 8 Berkwitt, G. J., 210 Berle, B. B., 114 Berlow, S., 290 Bernard, R. F., 2 Bernhard, M. R., 63 Bernstein, D. A., 103-7, 109-11 Bernstein, M., 230 Berry, C. L., 14 Berry, G., 174, 175 Bertsch, E. F., 459 Berwick, D. B., 231 Besdine, R. W., 61

Bespalec, D. A., 103, 105, 109 Best, J. A., 106, 107, 116 Beth. E., 94 Bickel, H., 288 Bidgood, F., 328 Biedermann, N., 407 Bierman, C. W., 236 BIGONESS, W. J., 201-24 Billan, B., 60 Bingham, E., 202 Binner, P. R., 464 Birchler, G. R., 106 Bird, R., 11 Biro-Gosztonyi, M., 16 Bishop, Y. M. M., 30 Bitman, J., 2, 3, 19 Black, R. A., 267 Black, T. N., 9 Blake, J. L., 60 Blanchat, H. J. Jr., 3 Blattner, W. A., 97 Blatz, A. T., 15 Blazer, D., 69 Blend, M. J., 3 Bliss, A. A., 254 Bliss, C. M., 112 Bloch, E., 15 Bloch, M., 106, 107 Block, D. L., 174, 175 Block, J. C., 407 Bloom, B. S., 78 Bloom, S., 291 Blot, W. J., 87, 89, 92, 96 Bockoven, J. S., 452 Boening, P. H., 414 Boes, R., 383 Bogdan, G. F., 399 Boice, J. D., 90, 91 Bollyky, L. L., 407 Bommarito, P., 202 Bond, J., 4 Bonham, G. S., 183, 184 Bonn, E. M., 464 Bonnet, L., 432 Boone, G. H., 425 Borchardt, J. H., 411 Borden, N. H., 143 Borenzst, Y., 432 Borisova, A. F., 11 Bornmann, G., 17 Bornstein, A., 61 Bosse, R., 174 Botta, J. A. Jr., 14 Botvin, G. J., 327 Boulos, B. M., 202 Bowen, L., 60 Bowlyow, J., 78 Bowman, J. M., 307 Boyer, K. M., 243 Bradwell, A. R., 228 Braman, S. S., 202 Brandon, S., 448 Brann, E., 331

Braun, M. O., 429 Braun, P., 461-63 Braun, R., 180 Braunwald, E., 232, 233 Breitrose, H., 165 Brenniman, G. R., 340, 342, 344 BRESLOW, L., 129-51; 147, 148, 195, 196 BRESLOW, N., 29-54; 48 Breslow, N. E., 30, 32-34, 36, 38, 40, 45, 47, 48, 50, 51 Bridge, D. P., 220 Brimson, R. C., 38 Brinkman, G. L., 174, 175 Brinton, L. A., 93 Brock, D. J., 297 Brocklehurst, J. C., 61, 78 Brodie, B. M., 264 Brook, R. H., 79 Brooke, E. M., 461 Brooks, M. I., 202 Broome, C. V., 243 Broste, S., 104, 122 Broste, S. K., 109, 122 Browder, A. A., 238 Brown, B., 455 Brown, B. B., 120 Brown, B. W., 13, 165 Brown, C., 342 Brown, C. C., 87, 91 Brown, J. H., 399 Brown, N. K., 238 Brown, T. C., 263 Brownfield, R. L., 229 Brownlow, W. J., 174 Bruvold, W. H., 434, 435 Bryan, J. B., 252 Bryant, A. R., 410 Bryson, S. C., 257 Bucholz, K. K., 315 Buck, C. E., 406, 407 Buckley, J. D., 95 Buckwold, F. J., 235 Budreau, C. H., 5 Bull, R. J., 408, 410 Buncher, C. R., 401, 403 Bunn, P. A., 94 Bunn, W. W., 394 Burch, J. D., 95 Burek, J. D., 8 Burkett, G. L., 262 Burkhardt, F. X., 217 Burley, T. M., 143 Burlington, H., 2 Burnes, D. C., 237 Burney, L. E., 136 Burr, B. D., 263 Burst, H. V., 267 Burton, D., 116 Burton, G. J., 95 Butler, I. J., 290, 291

Brashear, D. A., 430

Butterworth, K. R., 17 Byar, D. P., 38 Byrnes, N., 78

0

Cabell, D. A., 4 Cable, W. E., 237 Cahudhuri, M., 410 Calabrese, E. J., 370, 410 Calandra, J. C., 4, 5, 7, 13, 17-19 Calat, G., 226 Calgagini, J. A., 6 Calhoun, L. G., 19 Calhoun, L. L., 18 Calicott, T., 331 Califano, J. A. Jr., 145 Campbell, C. S., 11 Campbell, W. F., 429 Camus, A. S., 70 Cann, H. M., 236 Cannan, D. E., 432 Cannon, M. S., 2 Cantor, K. P., 93, 348, 400, 403 Caplan, R., 118 Caramanica, V., 327, 328 Caranasos, G. J., 71 Carbonari, J., 327 Carley, R. L., 434 Carlo, G. L., 341 Carlsmith, M. J., 192 Carmalt, M. H. B., 228 Carnow, B. W., 202 Carpenter, C. P., 5 Carpenter, D., 17 Carpenter, G., 302 Carr, D., 279 Carr, J. K., 340, 344, 345, 355 Carr, J. R., 291 Carrol, H. D., 261 Carruthers, M. M., 235 Carswell, J. K., 393, 394 Carter, B. J., 327 Carter, G., 264 Carthy, M. H., 61, 78 Casagrande, J., 51 Casagrande, J. T., 45, 46 Caserio, M. C., 399 Cassel, C. K., 69 Cassel, J., 114 Castelli, W. P., 161 Castle, M., 235 Cate, T. R., 235 Cattanach, B. M., 14 Cautela, J. R., 106 Cech, I., 399 Cecil, H. C., 3, 19 Cederlof, R., 92 Chambers, G. C., 306 Chandra, S. V., 11 Chang, M. C., 16

CHANG, S.-L., 393-418; 366, 407, 409-11 Chapman, M. W., 261 Charlton, C. A. C., 238 Chase, M. S., 43, 44 Chaudhuri, M., 410 Check, W., 302 Cheh, A. M., 353 Chen, T., 105, 115-17 Chen, Z.-J., 87 Cheung, T., 94 Chi, F., 402, 403 Childs, B., 277, 285 Chi-Ping, K., 16 Chizzie, L., 348 Choi, N. W., 95 Chopin, J. M., 70, 71, 74 Chretien, J. H., 236 Christensen, C. M., 16 Christensen, G., 330 Christensen, G. M., 326, 335 Christian, R. T., 431 Christie, D. G. S., 165 Christman, R. F., 398 Chu, F. D., 456 Chu, K. C., 91 Chudzik, G., 236 Chui, K., 267 Church, M. A., 240 Churgin, S. D., 328 Chutorian, A. M., 300 Chuzmir, S. F., 332 Clark, C. S., 431 Clarkson, J. R., 340, 344, 345, 355 Cleary, P. D., 107, 108, 110, 120, 185 Clements, E. V. III, 431 Cline, N. M., 427 Clow, C. L., 315 Cluff, L. E., 70, 71, 74 Coate, W. B., 13 Coates, T. J., 327-30, 332 Cobb, C. F., 12 Cobb, S., 114, 117 Cochin, J., 12 Cochran, W. G., 36, 48 Cody, T. E., 431 Cohan, R. C., 219 Cohen, E. N., 13 Cohen, J. M., 411 Cohen, S. N., 236 Cole, D. E. C., 288 Cole, G. W., 230 Cole, L., 353 Cole, L. J., 14 Cole, P., 29, 94, 170 Coleman, J. G., 327, 328 Coleman, W. E., 398 Collen, M., 182 Colley, J. R. T., 180 Collins, J. A., 4

Collins, R. L., 12

Collins, T. F. X., 5, 9 Colthurst, J. M., 411 Colton, T., 228 Comley, A. E., 264 Comstock, G. W., 174, 341, 370 Conn, R. B., 230, 231 Connelly, J. P., 252, 258, 273 Conney, A. H., 3 Cook, C., 208 Cook, G. M., 95 Cook, J. S., 237 Cooper, E. R. A., 19 Cooper, J. K., 226, 228, 232, 233 Cooper, R. C., 428 Corkhill, R., 180 Corkhill, R. T., 180 Corn, J. K., 203 Cornfield, J., 30, 32 Correa, P., 342 Corso, T., 256 Costello, A. C., 252 Cotton, R. G. H., 290 Couch, N. P., 71 Courtney, K. D., 6 Cove, A. R., 304 Cowling, K., 187 Cox, D. R., 30, 31, 47, 48, 51 Craig, W. A., 235, 237 Crane, D. B., 238 Crane, G. E., 449 Cranston, E. M., 13 Craun, G. F., 361-63 Craver, J. M., 256 Crawford, A. A., 8 Crescenzi, C., 70, 74 Cress, C., 174, 175 Cronier, S., 407 Croninger, A. B., 133 Crook, J., 428, 435 Cross, P. K., 310 Crowther, A., 238 CRUMP. K. S., 339-57: 340. 349, 351, 368 Cubit, D., 3 Cuello, C., 342 Cunnington, A., 229, 233 Cyr, A. S., 262

Dachelet, C. Z., 259, 261
Dahling, D., 409
Dahmer, C., 238
Dai, R. X., 16
Dales, L. G., 39, 161, 181
D'Alessandri, R., 232
Danaher, B. G., 103, 105-7, 111, 116, 329, 331, 332
Daniels, M., 228
Danks, D. M., 290
Daube, M., 130, 189

David, N., 180 Davidson, A. G. F., 297 Davies, J. G., 238 Davies, P., 19 Davies, R., 363 Davis, F. G., 95 Davis, M. E., 219 Davis, T. A., 414 Dawber, T. R., 163 Day, L. R., 257 Day, N., 281 Day, N. E., 30, 36, 38-40, 47, 48, 51, 86, 87 Dayal, H., 95 Deacon, M. M., 18 Dean, R. S., 428 Dean, W., 254 Deane, E. R., 394 Deane, R. T., 267 DeBacker, G., 165 Deeds, S. G., 335 DeFriese, G. H., 262 DeGuevara, M. L., 180 Deichmann, W. B., 2, 3, 19 Dekker, E., 185, 186, 189 Delgado, A., 63 Dellinger, D. C., 63, 79 Demarco, J., 393, 394 Den Blacken, J. C., 413 Denison, E., 211 Dennison, D., 328 Denz, F. A., 4 Der Kaloustian, V. M., 285 Desai, I. D., 16 DESJARDINS, R. B., 201-24 Desnick, R. J., 295 de Stwolinski, A., 236 Detmer, D. E., 271 Deutsch, A., 452, 453 Devesa, S. S., 87 DeVries, T. H., 8 Dickens, C., 452 Dickinson, J., 111, 112 Dickstein, M. S., 327 Diehr, P., 264 Dierks, J. W., 238 DiGiano, F. A., 367 Dillard, K. R., 235 Dingman, P. R., 462 Discher, D. P., 202 Dixon, R. H., 229, 232 Dixon, R. L., 11 Doenicke, A., 13 Doherty, J. F., 222 Doll, R., 85, 91, 92, 94, 95, 97, 102, 134, 154, 159, 162, 170, 171 Domino, E. F., 120 Donaldson, M. C., 228 Donovan, J. F., 372, 422, 429 Doron, G., 188, 191

Dostal, K. A., 411

Doughty, J. H., 279

Douglass, E. B., 59 Dove, L. A., 420 Downs, T. D., 78, 79 Doyle, J. T., 101 Dramaix, M., 165 Draper, S. W., 4 Driscoll, L., 261 Driscoll, S. G., 301 Dubitzky, M., 105, 115, 117, 193 Dunham, H. W., 459 Dunn, W. L. Jr., 111 Dunne, M. E., 237 Durbridge, T. C., 227 Duynslager, W. A., 427 Dworkin, D., 434 Dyer, L., 214 Dykes, A. C., 363 Dynes, J., 238 Dzau, V., 232, 233

### E

Eaker, E., 115, 119 Eastman, C., 204 Ebeling, D., 12 Eberhardt, M., 413 Eby, C., 79 Eddy, N. B., 332 Edes, N. B., 205, 206 Edgecomb, J. H., 3 Edsall, G., 240 Edwards, F., 227 Edwards, K., 8, 19 Edwards, L., 331 Edwards, R. G., 227 Edzwald, J. K., 368 Egdahl, R. H., 222 Eggert, G., 78 Ehrengut, W., 240 Einhellig, F. A., 15 Eisdorfer, C., 72, 73 Eisenberg, J. M., 228, 230-32 Eisenlord, G. H., 6 Eisinger, R. A., 116, 117 Ejigou, A., 42 Elia, U. J., 431 Elias, S., 311 Eliason, B. C., 3 Ellenberger, H. F., 453 Elliott, D. F., 62, 65 Ellwood, P. M. Jr., 222 Elmfeldt, D., 168 Embree, J. W. Jr., 6 Emerson, M. A., 406, 407 Emery, A. E. H., 301, 314 Eng, A., 327 Engel, L. W., 348 Engelbrecht, R. S., 372, 410 Engler, V., 180 Epstein, C., 302 Epstein, C. J., 287 Epstein, S. S., 400

Erickson, J. D., 306 Erickson, R. H., 262 Eschenbrenner, A. B., 393, 400 Escovitz, G. H., 262 Esposito, P., 407, 409 Essenberg, J. M., 12 Esswein, J. G., 236 Estes, E. H., 270 Evans, A. S., 94 Evans, D., 105 Evans, R. I., 187, 331, 332 Everhart, T., 427, 428, 430 Eysenck, H. J., 114

### F

Facklam, R. R., 243 Fahim, M., 10 Fair, W. R., 238 Fairbank, M. E., 78 Faisst, J. A., 427, 430, 431 Falk, H. L., 407 Fancher, O. E., 17 Fang, L. S. T., 238 Fang, W. L., 327, 330 Farber, T. M., 14 Farquhar, J. W., 165 Farrisey, R. M., 257 Fears, T. R., 90 Feather, J., 95 Feder, E. G., 327, 328 Federspiel, C. F., 226, 236 Feigl, P., 43 Feiler, H., 430 Fein, R., 251 Feinleib, M., 158, 162 Feinstein, A. R., 38 Fejer, D., 327 Feldman, J. J., 252 Feldman, R., 182 Felix, R., 453 Felsenstein, J., 296 Fend, V., 180 Ferris, F. D., 216 Fetner, R. H., 405, 406 Fialkow, P. J., 286 Fielding, D. W., 304 Fielding, J. E., 195, 196, 221 Fienberg, S. E., 30 Filip, D. S., 410 Filipovich, A. H., 94 Fill, G., 103 Fillenbaum, G. G., 68 Finch, C. E., 60 FINEBERG, H. V., 225-48; 226, 227, 229, 231, 233 Fink, A., 79 Finkel, M. J., 234, 235 Finkelstein, S. N., 229 Finkle, W. D., 29 Finland, M., 235 Fischer, A. K., 69 Fischman, S. H., 266

Fishbein, L., 1 Fishbein, M., 190 Fisher, C. R., 55, 74 Fisher, M., 61 Fisher, R. S., 11 Fishman, E. L., 104, 122 Fitzmahan, G. L., 327, 328 Fiumara, N. J., 243 Fleiss, J. L., 344 Fletcher, C., 173-75 Fletcher, C. M., 153, 154 Fletcher, W. B., 239, 240 Flynn, A., 411 Ford, A. B., 78, 79 Ford, L. C., 257 Ford, P. A., 257 Forstenzer, H. M., 456 Forsythe, S. L., 428 Foster, D. M., 406, 407 Foster, F. J., 202 Fottler, M. D., 262 Fottrell, E., 450 Fowkes, V., 263 Fowler, W. C. Jr., 38 Fox, J. G., 262 Fox, K. A., 13 Frank, C. W., 168 Frank, O., 65 Frank, P. C., 3, 19 Fraser, C., 302 Fraser, D. W., 238-41, 243 Fraser, F. C., 1, 313 Fraser, G. R., 296 FRAUMENI, J. F. JR., 85-100; 87, 89, 90, 92-94, 96, 97 Frawley, J. P., 4, 5, 19 Freeborn, D. K., 228-30 Freedman, J. L., 192 Freeland, M., 226 Freeman, G. H., 16 Freeman, J., 236 Friberg, L., 92 Fridlyand, S. A., 410 Friedell, G. H., 170 Friedler, G., 11, 12 Friedman, G. D., 102, 161, 164, 181-83 Friedman, J. M., 286 Friedman, L., 8, 14 Fries, G. F., 2 Fries, J. F., 56, 64 Frith, C. D., 120 Fry, J. S., 154 Fujimoto, G., 15 Fuller, G. B., 4

### G

Gaertner, R. A., 2 Gail, M., 46 Gail, M. H., 51 Gaines, T. B., 7, 17

Galjaard, H., 314 Gall, R. J., 409 Gallagher, J. P. M., 353 Gallo, R. C., 94 Gallup, G. J., 434 Galst, J., 333 Gangolli, S. D., 17 Gardner, E., 15 Gardner, R., 11 Garfinkel, L., 92, 95, 102 Garfinkel, L. A., 180 Garner, L., 228, 232 Garrison, A. W., 430 Gart, J. J., 46-48 Gavaler, J. S., 12 Gavanescu, O., 10 Gavrilenko, E. V., 9 Gazdar, A. F., 94 Gedeon, M., 279 Geldreich, E. E., 405 Gellert, R., 4 Gellert, R. J., 7 Gentry, J. M., 258, 259 George, D. B., 410 Gerbner, G., 191 Gerrard, J., 288 Gershenson, M. I., 252 Gerson, S., 457 Gertham, P. M., 70, 74 Gibson, G., 235, 262 Gibson, L. E., 297 Gibson, R. M., 55, 74 Gibson, R. W., 117 Giglio, R. J., 332 Gilbert, D. G., 120 Gilmore, C. E., 14 Giner-Sorolla, A., 12 Ginnold, R., 211 Ginzberg, E., 268 Giraldo, G., 94 Glasgow, R. E., 106, 110 Glass, N. J., 304 Glaze, W. H., 368, 408 Gleason, J. M., 210 Gletcher, C. M., 102 Globus, M., 15 Goertzel, V., 456 Goffman, E., 450 Goldberg, G., 79 Goldberg, G. A., 229 Goldberg, J. D., 295 Goldberg, M. F., 303 Goldberg, R., 168 Goldfrank, L., 256 Goldsmith, J., 220 Goldstein, I., 340, 342-44 Goldstein, M. J., 449, 462 Golstein, I., 401 Gong, R. H., 16 Good, E. E., 2-4 Goode, R. F., 411 Goodman, H. S., 307 Goodman, L. J., 270

Gorchev, H., 428 Gordillo, G., 342 Gordon, J. B., 202 Gordon, T., 65, 101, 163 Gostling, J. V. T., 240 Gotoff, S. P., 243 Gottlieb, M. S., 340, 344, 345, 355 Goudey, R. F., 420 Gould, T. C., 10 Grace, M. G., 95 Grady, G. F., 241 Graham, E. A., 133, 134 Graham, I. M., 168 Graham, S., 95, 117 Gral. T., 60 Grant, D. L., 7 Grant, K., 235 Grant, L. D., 10 Grasso, P., 17 Graunt, I. F., 17 Gray, J., 327 Gray, J. J. B., 17 Gray, N., 130, 189 Gray, S., 61 Graydon, J., 427, 430 Green. D. E., 186, 191 GREEN, L. W., 321-38; 322, 326, 327, 335 Green, M., 212 Green, S. B., 38 Greenberg, A. E., 404 Greenberg, B. G., 38 Greenberg, S., 461-63 Greenblatt, M., 456 Greene, J. B., 94 Greene, M. H., 90 Greene, R., 213 Greener, M., 431 Greenland, P., 233 Greenlick, M. R., 228-30 Greenwalt, L. F., 75, 79 Grenier, A., 288 Grice, H. C., 9 Griffin, W., 10 Griner, P. F., 228, 229, 231, Gross, L., 191 GRUENBERG, E. M., 445-68; 448-51, 454, 460 Gruener, N., 353, 428, 431 Gudat, J. C., 60 Gudeman, J. E., 461-63 Guentzel, M. N., 432 Guerriero, F. J., 13 GUESS, H. A., 339-57; 351, 368 Guilford, J. S., 115, 117 Gunderson, M., 327, 328 Gunn, G. A., 427, 430 Gunn, S. A., 10 Gunner, S. W., 9 Gupta, C., 12

Gurland, B. J., 69 Gutensohn, N., 94 Guthrie, F. E., 5 Guthrie, R., 291 Guy, M. D., 410 Guze, L. B., 235 Gyntelberg, F., 158

H

Haas, J. F., 202 Haas, J. R., 398 Hadjimarkos, D. M., 411 Haenszel, W., 30, 47, 86, 342, 403 Hahn, J. D., 19 Hakkila, J., 169 Hale, W. E., 65 Hall, C. L., 238 Halperin, M., 34 Halton, J. H., 16 Halvorsen, K. T., 51 Hamalainen, H., 169 Hamerton, J. L., 306 Hamilton, H. Jr., 428 Hamilton, P. J. S., 165-67 Hamilton, S. W., 452 Hammen, C. L., 103, 104, 107, 109, 116, 117 Hammer, D., 78 Hammond, D., 243 Hammond, E. C., 30, 89, 92, 102, 134, 180 Hamrick, M., 327 Hanada, H., 17 Hananian, J., 97 Handler, P., 423 Haney, P. D., 372 Haning, H., 170 Hansen, W. B., 331, 332 Hansen, W. H., 5, 9 Hard, W. B., 204 Harding, H. J., 432 Hardwick, D. F., 230, 297 Harleman, J. H., 18 Harmon, J. A., 420, 424 Harris, D. E., 106 Harris, H., 283, 284 Harris, R., 304, 307 Harris, R. H., 400, 401 HARRIS, R. L., 201-24 Harris, S. J., 3, 19 Hartemann, P., 407 Harvard, C. W. H., 11 Haskell, D., 113, 122 Haskell, W. L., 165 Hass, B. B., 394 Hatcher, C. R., 256 Hatina, G. V., 7 Hauck, W. W., 47, 48 Haug, M. R., 72 Havis, J., 331, 332

Haward, M. W. A., 238 Hawkins, H. C., 14 Hawthorne, V. W., 154 Hayflick, L., 60 Haynes, R. B., 117 Heid, M., 348 Heinrich, H., 13 Heit, P., 322, 326-28, 335 Helgeland, A., 166 Hellegers, J. F., 332, 334 Heller, R. F., 165 Hellsing, K., 297 Hembree, W. C., 15 Hemistra, N. W., 114 Henck, J. W., 19 Henderson, A., 187 Henderson, D., 232 Henderson, S. R., 269 Henry, M., 259, 261 Hepp, R., 14 Herbert, M. E., 222 Herbst, A. L., 93 Herman, C. P., 111, 119, 120 Herrmann, W. L., 29 Hetland, M., 59 Hetychova, M., 180 Hickey, J. L. S., 432 Hickey, N., 168 Hickmans, E. M., 288 Hierlihy, S. L., 7 Higgins, G., 243 Higgins, I. T. T., 172 Higgins, M. W., 117 Higginson, J., 86 Hilderbrand, D. G., 10 Hill, A. B., 36, 102, 134, 154, 159, 162 Hill, A. P., 51 Hill, E., 327 Hill, J. G., 78 Hill, M., 12 Hill, N. A., 187 Hill, O. A., 411 Hill, P., 95 Hill, W. J. Jr., 430 Hilliard, J., 12 Hine, C. H., 6 Hirayama, T., 180 Hirota, N., 95 Hiroto, D., 118 Hjermann, I., 166 Hobbs, E. J., 18 Hoch, L., 328 Hochbaum, G., 330 Hodge, H. C., 3 Hoehn, R., 411 Hoel, D. G., 340, 402, 403 Hoff, J. C., 405 Hoffman, W. E., 143 Hogan, M. D., 402, 403 Hogue, C. J. R., 38 Holcomb, J. D., 327, 332 Holcomb, L. C., 2

Holford, T. R., 51 Holland, P. W., 30 Holland, W. W., 180, 229 Hollstein, M. C., 432 Holme, I., 166 Holmes, L. B., 281, 301, 306 Holmes, P. A., 10 Holmes, T. H., 118 Holtzman, N. A., 291 Holzemer, W. L., 262 Holzwarth, M. A., 9 Hommon, H. B., 420 Homola, S., 5 Hong, C. B., 8 Hook, E. B., 305, 306, 310, 312 Hoover, R., 93, 94, 400, 403 Hoover, R. N., 93, 96, 348 Hopp, J. W., 332 Horn, D., 102, 134, 153, 154, 180 Horne, W., 427 Horowitz, M., 118 Horwitz, R. I., 38 Hosoda, Y., 64 Houghton, S. A., 288 Howe, G. R., 95 Howell, R. R., 290 Howrey, S. P., 236 Hsia, Y. E., 315 Huang, E.-S., 94 Huang, H. F. S., 15 Huber, H. M., 464 Huether, C. A., 277 Hughes, E. M., 76 Hughes, G. H., 105, 122, 156, 158, 165-67, 184, 193 Hughes, J. M., 361, 363 Hulka, B. S., 38 Hulley, S. B., 159 Hully, S. B., 104 Humiston, C. G., 6, 18, 19 Hunt, H. A., 205 Hunt, W. A., 103, 105, 107, 109 Hurd, P. D., 329, 331 Hurkat, P. C., 3 Hurst, E. M., 9 Hurst, W. F., 427 Hurwitz, I., 103-5, 109, 110, 114, 118 Hyde, C. G., 420 Hymes, K. B., 94 Hymowitz, N., 105, 109, 122, 156, 158, 165-67, 184, 193

Ives, E. R., 229 Jablon, S., 90, 91 Jackson, H., 8, 19 Jackson, L., 302 Jacobs, D. R., 329, 331 Jacobs, J. W., 63 Jacobs, M. A., 105, 113, 122 Jacobs, M. J., 184, 193 Jacobs, P. A., 280 Jacobson, M., 3 Jaffe, J. H., 104, 105, 117 Jain, M., 95 Jakubowski, W., 363, 433 James, W. H., 116 Jameton, A. L., 69 Jarvik, L., 59 Jarvik, L. F., 63 Jarvik, M. E., 111, 120, 122 Jaslow, S. P., 65 Jeanes, K., 262 Jeffrey, R. W., 327-30, 332 Jellison, M. G., 398 Jensen, O. M., 89 Jernigan, J. A., 60 Jeste, D. V., 449 Jeter, W. S., 430 Joffe, J. M., 12 John, J. A., 6, 8, 18, 19 John, P., 4, 5, 19 Johnson, C. A., 329, 331 Johnson, D. E., 432 Johnson, D. W., 4 Johnson, J. D., 398 Johnson, L. G., 344

Johnson, S., 461-63

Johnson, W. G., 300

Jolley, R. L., H., 428

Joly, D. J., 194

Jones, A. R., 8, 19

Jones, R. P., 327

Jones, S. R., 238

Juranek, D. D., 363

Juhasz, J., 15

Johnston, L. D., 186, 187

Jordon, J., 341, 342, 347

Irwig, L. M., 180 Isaac, P. C. G., 411

Ishii, T., 64

Isacson, P., 341, 342, 347

IVERSON, D. C., 321-38; 322,

326, 327, 330, 335

Iammarino, N. K., 327, 328, 332 Ikard, C. E., 112 Ingols, R. S., 405, 406 Intriligator, M. D., 252 Ionita. N., 13 K

Kaback, M. M., 294, 295, 309, 310 Kabler, P. W., 366, 410 Kagan, G. Z., 410 Kahle, R., 434 Kahn, A. J., 455 Kahn, H. A., 102 Kalandidi, A., 180 Kalchthaler, T., 61 Kallio, V., 169 Kalow, W., 4 Kalra, S. P., 15 Kan, Y. W., 300 Kanarek, M. S., 340, 343, 344, 348, 354 Kane, R. A., 59, 62, 63, 67, 71-73, 75-77, 79 Kane, R. L., 59, 62, 63, 67, 71-73, 75-79, 228 Kannel, W. B., 65, 101, 161, 163, 176 Kanzler, M., 104, 105, 117 Kaplan, B. H., 114 Kaplan, R., 327, 328 Kapp, R. W. Jr., 13 Karon, J. M., 30, 42 Karrh, B. W., 220 Kasius, R. V., 448, 457 Kasper, D. M., 205 Kasperson, R. E., 434 Kass, E. H., 237 Katz, E. L., 430 Katz, S., 78, 79 Katzenelson, E., 407, 432 Kaufman, D. G., 38 Kaufman, S., 291 Kaump, D. H., 15 Kavanagh, S., 74, 75, 78 Kavanaugh, M. C., 411 Kawata, K., 430 Kay, D. W. K., 68, 69 Kay, K., 3 Kazazian, H. H., 287 Ke, V. B., 16 Keay, A. J., 280 Kedmi, S., 432 Keeler, E., 59, 62, 63, 71-73, 76, 77, 79 Keeler, H. V., 5, 9 Kehrer, B. H., 252 Keller, A. Z., 169 Keller, K., 327 Kelly, A., 60, 95 Kelsey, J. L., 51, 93 Kemp, B. A., 238 Kenders, K., 226, 228, 232, 233 Kennedy, G. L. Jr., 4, 5, 7, 13, 18, 19 Kennedy, J. F., 455 Kensler, C. J., 14 Kent, D. F., 327 Kent, J. R., 12 Keplinger, M. L., 2, 3, 7, 13, 17-19

Kerr, L. E., 207, 220

Kersey, J., 94 Keutzer, C. S., 103-5, 109

Khan, M. A., 14

Khera, K.S., 9 Kikuchi, Y., 306 Kikuyama, S., 9 Killen, J., 329-32 Kim, B. R., 414 Kim, N. K., 352, 431 Kimbrough, R. D., 7, 17 Kimmel, C. A., 10 Kinlen, L. J., 94 Kinyon, L., 258, 259 Kirby, L. T., 297 Kirk, R. H., 327 Kirschman, J. C., 10 Kirschner, K., 217 Kissel, J., 428 Kitselman, C. H., 3 Kittel, F., 165 Kjelsberg, M. O., 104, 117, 122 Klapper, J., 195 Klatskin, G., 12 Klauber, M. R., 43, 44 Kleffel, D., 79 Kleinbaum, D. G., 30, 42 Kleinman, G. D., 202 Kleopfer, R. D., 394 Klepsch, I., 10 Klerman, G. L., 449 Klotz, M., 413 Knapp, P. H., 105, 112, 113, 122 Knill-Jones, R. P., 13 Knutsen, A. L., 115 Kochan, T. A., 214 Kochansky, G., 461-63 Kociba, R. J., 6, 18, 19 Koenig, L., 380 Koerner, G., 407 Kolbe, L. J., 322, 326, 327, 330, 335 Kollberg, H., 297 Kolle, W., 414 Kopfler, F. C., 398 Koplan, J. P., 238-41 Koppler, F. C., 348 Kornitzer, M., 165 Korte, F., 7 Korvin, C. C., 228 Kosecoff, J., 79 Koskela, K., 165 Koski, P., 353 Kovar, M. G., 55-57, 63-67, 72, 73, 75 Koya, G., 10 Kozlowski, L. T., 111, 119, 120, 187 Kramer, M., 456-58 Kramer, M. S., 299 Krasovskii, G. N., 11 Kraus, N., 267 Krause, W., 5 Krauss, R. M., 7, 20 Kreissl, J. F., 411 Kreuter, M., 322, 326, 327, 335

Kreuter, M. W., 326, 330, 335 Kreye, V. A. W., 14 Kroes, R., 8 Kroll, R., 353 Kroner, R. C., 393 Kropp, K. L., 393, 394 Kruse, C. W., 340, 400, 401, 430 Kuhn, J. C., 262 Kuhn, W., 403, 405, 408-10, 412 Kulenkampff, M., 240 **KULLER, L., 153-78** Kuller, L. H., 165 Kunin, C. M., 235-38 Kunin, R., 414 Kuntzman, R., 3 Kupper, L. L., 30, 42 Kurihara, M., 86 Kusnetz, H., 209 Kutchins, A., 205 Kuzma, C. M., 401, 403 Kuzma, R. T., 401, 403

L Laberge, C., 288, 293 Lachant, N., 235, 236 Lagos, J., 340, 342, 344 Lake, B., 64 Lake, L. M., 438 Lalich, J. J., 6 Lamb, H. R., 456 Lamb, J. C., 6 Lampkin, B. C., 97 Lamy, P. P., 74 Lancranjan, I., 10 Land, C. E., 90 Lander, L., 457 Lando, H. A., 104 Lane, D. S., 105 Lang, D. R., 353 Langwell, K. M., 267 LaRue, A., 59 Lasagna, L., 235, 236 Laszlo, J., 229, 232 Lau, I. F., 10 Laubenstein, L. J., 94 Lauriden, L., 158 Lauwers, W., 12 Lave. L. B., 195, 196 Lawrence, D. M., 264 Lawrence, J., 398 Lawrence, R. S., 262 Lawrence, W. H., 17 Lawton, M. P., 113 Leahy, F. J., 47, 48 Leaverton, P. E., 183, 184 Lebovits, B. Z., 202 Lederer, T. S., 19 Lee, C. C., 8 Lee, G. E., 427 Lee, G. F., 4, 411

Lee, I. P., 11 Lee, J. S., 425 Leeder, S. R., 180 Leeming, J. T., 61, 78 Lefcoe, N. M., 116 Leibling, B., 111, 119, 120 Leisti, J., 306 Lenke, R. R., 290 Leong, C., 428 Leren, P., 166 Lessick, M. L., 281 Lester, R., 12 Lethco, E. J., 8 Levenberg, S. B., 104 Leventhal, H., 104, 107, 108, 110, 120, 185 Levin, B., 118 Levin, S., 234, 236 Levin, W., 3 Levinan, L., 237 Levine, J. I., 264 Levinson, D. A., 333 Levinson, P., 111 Levitt, R. A., 12 Levy, E., 17 Levy, H. L., 288-91 Lew, E. A., 95 Lewis, C. E., 329, 330, 332 Lewis, D. K., 30, 42 Lewis, M. A., 329, 330, 332 Lewis, R., 13 Lezotte, D. C., 60 Li, G.-Y., 87 Li, J.-Y., 87 Liang, K. Y., 48 Liao, W. T., 398 Libster, B., 303 Lichtenburg, J. J., 393 Lichtenstein, E., 103, 105-7, 109, 111 Liddel, F. D. K., 33, 51 Lilienfeld, A. M., 30 Lin, S., 408 Lin, X. K., 16 Lincer, J. L., 17 Lindeman, V. F., 2 Lindemeyer, R. I., 238 Lindenthal, J. J., 113, 118 Linder, R. E., 17 Lindsey, A. M., 76 Ling, C. S., 424, 427 Lipsky, D. B., 214 Liptzin, B., 228, 229 Little, R. J. A., 30, 40 Littlefield, J. W., 297 Liu, B.-Q., 87 Livieratos, B. B., 78, 79 Lloyd, J. W., 6 Lockwood, M. P., 353, 431 Loeser, A., 17 Lofroth, G., 10 Logan, F. A., 111 Lohr, J. A., 264

London, C. D., 228 Loper, J. C., 353 Lorenz, R. A., 363 Lorimer, A., 332 Louria, D. B., 65 Lowrance, W. W., 423 Lubin, J. H., 51 Lucas, M., 409 Lucas, R. D., 398, 410 Luce, B. R., 130, 146 Ludovici, P. P., 430 Lue-Hing, C., 389 Luepker, R. V., 329, 331 Lui, O. C., 430 Lui, Z. L., 16 Lundberg, C., 2 Lund-Lansen, P. G., 166 Lurie, E., 262 Luttman, D., 327 Luurila, O. J., 169 Lyon, D. A., 9

### M

Mabuchi, K., 171 MacAirt, J., 168 Maccoby, N., 165, 329-31 MacDonald, W. E., 3 MacLennan, R., 95, 96 MacMahon, B., 96, 180 Macmillan, D., 462 MacPherson, B. V., 327 Macri, J. N., 303 Maddox, G., 72 Maddox, G. L., 59, 63, 79 Madison, D. L., 269 Madsen, S., 413 Macda, K., 64 Mah, R. A., 401 Mahler, A., 353 Mahler, H., 148 Mahoney, M. J., 313 Majumder, J. L., 450 Maki, J., 165 Malleson, P. N., 240 Maltoni, C., 91 Mamunes, P., 288 Mancuso, T. A., 217 Mann, P. G., 238 Manson, J. C., 297 Mansour, E. G., 411 Mantel, N., 30, 47 Manwaring, J. F., 410 Marcus, A., 94 Mark, R., 75, 79 Markel, S. F., 230 Marks, B. H., 15 Marks, R. G., 65 Marks, T.- A., 6 Marlar, R. J., 17 Marquardt, H., 95 Marshall, S., 7, 20 Marston, R. M., 104

Martin, A. R., 232, 233 Martin, D. V., 450 Martin, F., 12 Martin, S. P., 228 Marton, K. I., 232 Masi, D., 221 Mason, H. R., 270 Mason, K. E., 3 Mason, L., 431 Mason, T., 400, 403 Mason, T. J., 93 Masson, R., 176 Matarazzo, J. D., 103, 107, 109 Matsumoto, H., 10 Matsuraga, E., 306 Matthews, V., 95 Maugras, M., 407 Mauksch, I. G., 261 Mawhinney, M. G., 6 Mayer, S., 79 Mayewski, R. J., 233 Mayman, M., 114 Maynard, E. A., 3 Mazzi, R. I., 13 McAfee, D., 327 McAlister, A., 329-31 McAlister, A. L., 165 McAllister, A., 103, 105-7, 109 McArthur, C., 111, 112 McCabe, L. J., 93, 361-63 McCable, L. J., 400, 403 McCarty, P. L., 427, 428, 430, 431 McCary, J. L., 327, 328 McCauley, D., 434 McClurg, B. J., 407 McColl, J. D., 15 McCoombs, M. E., 195 McDonald, J. C., 33, 51 McDougall, S. J., 220 McElhaney, J., 413 McEnery, J. T., 237 McEvilla, J. D., 236 McFall, R. M., 103, 104, 107, 109 McGarvey, M., 236 McGee, D., 101, 163 McGhee, A., 61 McGuiness, T., 187 McGuire, D. B., 97 McHugh, R., 42 McIntosh, L. S., 243 McINTYRE, K. M., 101-28; 115, 119 McIver, J. D., 410 McKennell, A. C., 113 McKeon, W. R., 413 McKerrow, C. B., 174, 175 McKusick, V. A., 278, 279, 282 McLaughlin, J., 9 McLean, A., 219 McMichael, A. J., 95, 96

McNicol, M. W., 157 McNuity, D. E. O., 431 Mees, H. L., 103, 109 MEILAHN, E., 153-78 Meire, H., 307 Melak, B., 410 Melton, R. G., 398, 428, 432 Melville, M., 280 Mendel, W. M., 462 Mendeloff, J., 211, 212 Mendenhall, R. C., 265 Menninger, K., 114 Mentiak, J., 263 Mercer, S. O., 79 Mercier-Parot, L., 8 Merlin, H. E., 14 Mertz, W., 11 Meryash, D. L., 291 Mess, B., 16 Metsch, J. M., 237 Mettlin, C. J., 341 Metzner, H., 117 Meyer, A. J., 165 Meyer, J. K., 113, 118 Meyer, R. K., 15 Meyers, M. P., 327 Miettinen, O., 34, 40 Miettinen, O. S., 32, 35, 51 Mikulicz, K., 17 Milavsky, J. R., 333 Milby, T. H., 7, 20 Miles, J. H., 309, 310 Miller, A., 207 Miller, A. B., 95, 97 Miller, A. D., 456 Miller, A. L., 202 Miller, C. L., 239, 240 Miller, D. F., 4 Miller, E., 393, 400 Miller, G. E., 232 Miller, G. W., 403, 405, 408-10, 412 Miller, J. I., 256 Miller, J. J., 14 Miller, M. B., 62, 65 Miller, R. W., 412, 429 Milne, A. M., 327, 328 Milstien, S., 291 Minkler, M., 59 Minkoff, K., 450, 457 Minna, J. D., 94 Minor, D. R., 243 Minor, J. L., 8 Mirocha, C. J., 16 Mischel, W., 116 Mitchell, J. R., 230 Mitchell, T. J., 402, 403 Mitchell, V. F., 230 Mitchener, M., 10 Mittelman, A., 95 Mittelmark, M. B., 331, 332 Moir, D. D., 13 Moleski, L. M., 333

Moloney, T. W., 225, 226 Molyneux, M. K. B., 174, 175 Monaco, J., 235, 236 Monnig, R. L., 262 Monroe, R. J., 5 Monson, R. R., 170 Mooney, C., 327, 328 Moore, F. D., 71 Moore, G. E., 383 Moore, G. S., 402, 403, 410 Moore, J. A., 6 Moore, R., 232 Moreland, F. M., 14 Morgan, M., 191 Morgan, R. W., 95 Morgenstern, H., 30, 42 Mori, H., 95 Morrill, G. A., 15 Morris, D. T., 340, 344, 345, 355 Morris, J. C., 395, 396, 398, 399, 406 Morris, L. E., 96 Morris, R., 464 Morris, R. L., 344 Morton, A., 4 Moscovice, I., 269 Moss, J. M., 243 Moss, L., 227 Mosteller, F., 38 Motulsky, A., 302 Motulsky, A. E., 278 Motulsky, A. G., 296 Mower, H. F., 95 Moyer, J. F., 407 Moyer, P. R., 238 Muir, C. S., 86 Mulcahy, R., 12, 168 Mulinare, J., 229 Muller, M., 143, 148 Mulvihill, J. J., 96, 97 Mulvihill, M. N., 327 Munan, L., 60, 95 Munford, R. S., 238 Munster, A. M., 235 Muramatsu, S., 17 Murphy, C., 69 Murphy, E. A., 277 Murphy, J., 12 Murray, F. J., 6, 8, 19 Murray, J. S., 18 Mushlin, A. I., 233 Mustaniemi, H., 165 Myers, E., 180

N

Nadler, H. L., 297, 308 Nagasawa, H., 9 Nahas, G. G., 15 Nakamura, E., 313 Namekata, T., 340, 342, 344

Nardi, G., 96 Nash, J. D., 165 Nath. S., 3 Nathan, D. G., 300 Naus, A., 180 Neal, M. W., 428, 431, 432 Neaton, J. D., 104, 122 Neeman, I., 353 Neittaanmaki, L., 165 Nelson, G. H., 16 Nelson, J., 327 Nequin, L. G., 11 Nesbitt, P. D., 114, 122 Neu, H. C., 236 Neville, R. E., 265 Nevin, N. C., 304 Newhouse, M. L., 92 Nicklin, D., 230 Nieuwstad, T. J., 398 Nissinen, A., 165 Nitschke, K. D., 6, 19 Nitzschke, J. L., 398, 410 Noonon, B., 257 Norman, M. M., 105 Norris, A. H., 60 Norwood, D. L., 398 Nuckolls, K., 114 Nunn, J. F., 13 Nuttall, R., 103-5, 109, 110, 114, 118 Nyhan, W., 302

0

Oakes, T. W., 182 Oakley, G. P., 303 Ockene, I. S., 103-5, 110, 114 Ockene, J., 156, 158, 165-67 OCKENE, J. K., 101-28; 103-5, 107, 109, 110, 114, 115, 118, 122, 160, 184, 193 O'Donnell, J. E., 221 Odusote, A., 16 O'Flynn, M. E., 290, 291 O'Hara-Deveraux, M., 263 Oishi, H., 306 Oke, O. L., 16 Okun, D. A., 371, 428, 430, 433 O'Leary, D. S., 230 Oliver, B. G., 398 Oliver, T., 10 Olivieri, V. P., 430 Olsen, D. M., 228 Olsen, E. J., 63 Olsen, L. K., 327, 328 Olusi, S. O., 16 O'Malley, P. M., 186, 187 Omenn, G. S., 278 ONGERTH. H. J., 419-44: 420, 424

ONGERTH, J. E., 419-44 Onheiber, L., 238 Ordy, J. M., 12 Orlina, A., 243 Orlova, N. V., 5, 7 Orr, S. T., 264 Osterhout, S., 235 Ottoboni, A., 2 OUSLANDER, J. G., 55-83 Ozzarin, L. D., 464

### F

Page, T., 400, 401 Pahren, H., 433 Pahren, H. R., 428, 432 Palin, A. T., 410 Palley, C., 328 Palmer, B. B., 332 Panagioton, N. C., 333 Pang, S. N., 16 Pantell, R. H., 242 Parcel, G., 327 Parker, C. M., 8 Parker-Harris, M., 262 Parkerson, G. R., 228, 229 Parkhurst, J. D., 428, 430 Parlow, A. F., 12 Partridge, K. B., 335 Pasi, A., 6 Pastia, A., 13 Patel, U. A., 105, 115 Patras, A. R., 12 Patton, J., 33, 45 Pausch, H., 13 Payne, D. J. H., 240 Pearce, R. H., 228 Pearl, R., 134 PEARLMAN, L. A., 225-48; 231, 233 Pearson, H. A., 299 Peaslee, M. H., 15 Pechacek, T., 329, 331 Pechacek, T. F., 103, 105-7, 111, 116, 183, 193 Pedersen, P. B., 158 Pederson, L. L., 116 Pedoe, H. T., 165 Pefakall, D. B., 17 Pekowsky, B., 333 Peleg, M., 407 Penardi, R., 12 Pennell, M. Y., 267 Pepper, M. P., 113, 118 Percy, C. L., 86 Perlick, D., 111, 119, 120 Perri, M. G., 117 Perrine, R. L., 438 Perry, C., 329-32 Perry, H. B., 256, 271 Peters, E. L., 14 Peters, H., 17

Peters, P. W. J., 8 Petersdorf, R. G., 238 Peterson, L. J., 238 Peterson, O. L., 228 Petitclerc, C., 60 Petitti, D. B., 102, 164 Peto, J., 94 Peto, R., 85, 91, 95, 97, 170, 171, 173-75 Pettigrew, A., 103 Pettiti, D. B., 182, 183 Pfaender, F. K., 398 Pfeiffer, E., 59 Phillips, R. A., 430 Phillips, R. W., 113 Phillips, W. E. J., 7 Pickard, C. G., 262 Pickle, L. W., 89 Piemme, T. E., 226, 228, 232, 233 Pike, M. C., 45, 46, 51, 352 Pilny, M. K., 19 Pinchoff, D. M., 262 Pinsky, R. H., 114 Pipes, W. O., 362, 365 Pisias, S. J., 65 Plante, J., 60 Plecha, F. R., 411 Plog, S. C., 459 Podell, R. N., 327 Podgorny, D., 256 Pohland, F. G., 372 Poiesz, B. J., 94 Polakavetz, S. H., 237 Polissar, L., 348 Pollard, R., 240 Pomerleau, O. F., 193 Pope, J. D., 430 Popescu, H. I., 10 Pories, W. J., 411 PORTER, I. H., 277-319; 303 Poskanzer, D. C., 93 Posner, H. S., 3 Posner, R., 204 Poteryaeva, G. E., 18 Pottern, L. M., 96 Potts, W. J., 8 Powers, W., 50 Prakasam, T. B. S., 389 Prasad, M. R. N., 15 Prasad, V. K., 333 Prentice, R. L., 29, 32, 34, 49-51 Prescott, P., 261 Prevet, T., 328 Pritchard, A. B., 10 Proctor, P. H., 228 Prose, N. S., 94 Pryser, P., 114 Pulliam, C. D., 38 Puska, P., 165 Putnam, S. M., 262

Pyke, R., 49, 50

### Q

Quast, J. F., 18, 19 Queenan, J. T., 307

### P

Rachlin, S., 456 Radcliffe, S., 280 Rahe, R. H., 118 Raine, D. N., 228 Raines, B., 187 Ramstrom, L. M., 130, 146 Randall, C. W., 411 RAO, K. S., 1-27; 8, 18 Rao, T. R., 333 Rappaport, S. M., 432 Raskin, A., 61, 69 Raskind, M. A., 68, 69 Ratner, A., 9 Ratner, E. M., 332, 334 Rauh, J. S., 409 Rawley, R., 408 Ray, W. A., 226, 236 Raychaudhuri, C., 16 Rayner, A. A., 71 Read, A. P., 304, 307 Reale, G., 333 Record, J. C., 261, 263-65 Reddy, B. S., 95 Redican, K. J., 327 Redick, R. W., 456 Redmond, E. L., 256, 271 Reed, R., 115, 119 Register, J. W., 432 Reich, R., 456 Reichel, W., 70 Reiches, N. A., 340, 400, 401 Reider, R. O., 462 Reilly, T. A., 237 Reimer, R. R., 93 Reinhard, M., 427, 428, 430, 431 Reinhardt, U., 271 Reist, P. C., 432 Repicky, P. A., 265 Reynolds, J., 434 Reynolds, J. H., 429 Rice, R. G., 403, 405, 408-10, 412 Richard, M. G., 432 Richards, C. S., 117 Richards, R. K., 9 Richardson, H. L., 8 Richardson, M. E., 8 Richmond, B. B., 353 Riddick, F. A., 252 Riddiough, M. A., 238, 242, 243 Rider, G., 105, 183, 193 Ritter, K., 17 Robbins, A., 79

Robbins, M. H., 427, 430

Robeck, G. G., 393, 394, 411 Roberts, C., 327, 328 Roberts, J. D., 399 Roberts, P. V., 427, 431 Robertson, M., 180 Robertson, T. S., 333 Robinson, D. S., 235, 236 Robinson, J. M., 61, 78 Robinson, S., 15 Robson, C. M., 403, 405, 408-10, 412 Rodrigues, L. V., 13 Rodstein, M., 61, 70 Rogers, D. E., 225, 226 Rogot, E., 156 Rolstein, C., 12 Roman, W. M., 427 Ronald, A. R., 235 Rong, S.-D., 87 Rook, J. J., 393, 395, 396 Rooks, J. B., 266 Rooks, Y., 299 Roos, N. P., 74, 75, 78 Rose, C. L., 115, 117, 174 Rose, G., 165-67 Rosenbaum, P. R., 30, 40 Rosenblatt, R., 269 Rosenthal, S., 113, 122 Rossiter, C. E., 174, 175 Rossiter, J. R., 333 Rossman, I., 61 Rothman, K. J., 89, 169 Rotter, J. B., 115, 116 Roumain, J., 202 Roush, R. E., 266 Rowe, J. W., 60 Rowe, V. K., 7 Rowell, C. H., 372, 429 Rowley, P. T., 281 Rozelle, R. M., 331, 332 Rubenstein, L. Z., 78, 79 Rubin, R. H., 238 Rubin, R. J., 353 Rubinstein, L. V., 51 Ruby, G., 270 Ruggles, D. I., 9 Rumsey, T. S., 4 Rusby, D. I., 78, 79 Ruscetti, F. W., 94 Russell, M. A. H., 105, 110, 111, 115 Ruzsas, C., 16 Rybakova, M. N., 2 Rye, S., 238

S

Sabai, C., 51 Sachs, L. B., 104 Sackett, D. L., 32, 34, 117, 227 Sadek, S. E., 7 Sadler, A. M. Jr., 254 Sadler, B. L., 254 Sager, R. V., 168 Sagik, B. P., 433 Sahin, K. E., 222 Saksena, S. K., 10, 16 Sala, F., 2, 3, 19 Saldanha, V. F., 11 Salg, J., 401-3 Salonen, J., 165, 168 Salonen, J. T., 165 Salzman, C., 61, 69 Samorajski, T., 12 Samuels, M. L., 30, 39 Sanders, C. R., 238, 242, 243 Santiestevan, H., 459 Saunders, F. M., 414 Sauro, F. M., 8 Sawyer, C., 11 Sawyer, C. H., 12 Saxena, J., 428, 431, 432 Scaramuzzi, R. J., 12 Scarnato, C., 91 Scarpino, P. V., 407, 409 Schachter, S., 110, 111, 119, 120 Schaefer, C., 118 Schaffer, P. T. B., 430 Schaffner, W., 226, 236 Schaps, B., 328 Schardein, J. L., 15 Scheckler, W. E., 235 Scheer, J., 329 Scheffler, R. M., 270 Schendler, C. E., 226 Scherfig, J., 427 Schiffman, G., 243 Schlesselman, J. J., 42, 347 Schliftman, A., 228 Schmahl, D. P., 106 Schmidt, C. J., 431 Schnoor, J. L., 398, 410 Schoen, E. J., 262 Schoen, I., 228 Schoenbaum, S. C., 238-41 Schoenberger, J., 104, 122 Schoeny, R. S., 353 Schok, M., 315 Schollenberg, E., 235, 237 Schooley, M. A., 4 Schorah, C. J., 304 Schottenfeld, D., 202 Schramm, C. J., 221 Schramm, W., 194 Schreinemachers, D., 310 Schreiner, J., 427, 430, 431 Schroeder, H. A., 10 Schroeder, S. A., 226, 228, 230, 232, 233 Schubell, K., 158 Schultheis, K. R., 117 Schuman, L. M., 179 Schur, P. H., 243 Schwartz, D. J., 428, 431, 432 Schwartz, J. E., 105

Schwartz, J. L., 103, 105, 109, 115, 117, 183, 193 Schwartz, R. C., 300 Schwartzman, J. S., 240 Schweisfurth, R., 413 Schweizer, S., 130, 146 SCHWETZ, B. A., 1-27; 6, 8, 18, 19 Schwind, J. V., 12 Scobbo, R., 232 Scott, M., 69 Scotto, J., 90 Scriver, C. R., 288, 315 Scriver, D. E., 315 Scullin, R. L., 403, 405, 408-10, 412 Seacat, M. S., 257 Sears, D. O., 192 Seeger, D. R., 393-95, 399 Segal, S., 236 Seidl, L. G., 70, 71, 74 Seidman, H., 89 Seifert, W. E., 290 Seifter, J., 8 Seinen, W., 18 Selikoff, I. J., 180 Seller, M. J., 304 Seltzer, C. C., 161, 181 Selvin, S., 104, 159 Seneca, H., 76 Seraichekas, H. R., 430 Serbanescu, M., 10 Sexton, M., 109, 122 Shader, R. I., 61, 69 Shaffer, P. T. B., 411 Shanas, E., 72 Shapiro, B. H., 12 Shapiro, E., 74, 75, 78 Shapiro, R., 461-63 Shapiro, S., 168 Shaub, S. A., 432 Shaw, D. L., 195 Sheatsley, D. W., 264 Sheeley, D. R., 230 Sheffer, T., 263 Sheikh, A. A., 333 Sheil, A.G.R., 94 Sheppard, S., 304 Sherins, R. J., 11, 12 Sherman, H., 230 Shetland, M. L., 261 Shimkin, M. B., 30, 85 Shock, N. W., 60 Shor, R. E., 186 Shore, M. F., 461-63 Short, R. D., 8 Showstack, J. A., 226 Shtenberg, A. I., 7, 9 Shuman, R. M., 7 Shuval, H. I., 407 Shy, C. M., 89, 340 Siber, G. R., 243 Siegel, E., 257

Siegel, L., 456 Siegelaub, A. B., 102, 161, 164, 181, 182 Signorelli, N., 191 Sillett, R. W., 157 Silver, G. A., 257 Silver, H. K., 257 Silverberg, E., 101 Silverman, D. T., 87 Silverstein, B., 111, 119, 120 Simmon, V. F., 354 Simmons, H. E., 233, 234 Simon, N., 105, 122, 156, 158, 165-67, 184, 193 Simpson, J. L., 311 Sims, J., 434 Sinclair, J. W., 3 Sinclair, S., 363 Singer, P. C., 395, 398, 411 Singh, A. R., 17 Singh, R. P., 5 Singh, V. K., 4 Skochdopole, J., 353 Slay, L., 264 Slepack, J. M., 238 Slinkard, L. A., 327-32 Sloan, C. S., 10 Sloane, L. M., 236 Slocum, C. J., 393, 394 Slocum, R. A., 395, 399 Sloss, E., 401 Smart, R., 327 Smith, A., 61 Smith, B. L., 393, 394 Smith, C. C., 353 Smith, D. C., 29 Smith, F. A., 6, 18, 19 Smith, J. W., 70, 71, 74 Smith, P. G., 30, 39, 40, 46, 51, 94 Smith, R., 232 Smith, R. A., 253 Smith, R. S., 211 Smith, S. H., 7, 13 Smith, V. L., 399 Smithells, R. W., 304 Smits, H., 228, 232 Smyth, H. F. Jr., 5, 17 Snoeyink, V. L., 414 Snow, H. B., 449, 451 Solomon, D. H., 59, 62, 63, 71-73, 76, 77, 79 Solon, J. A., 75, 79 Somers, A. R., 56, 57, 59, 63-65, 70-74, 80 Sonawane, B. R., 12 Sonnenstahl, W. J., 221 Sontheimer, H., 413 Soper, K. A., 78 Sorber, C. A., 432, 433 Sorlie, P. D., 176 Sox, H. C. Jr., 232, 263 Soyka, L. F., 12, 235, 236

Sozy, A. M., 300 Spanggord, R. J., 407 Sparros, L., 180 Sparrow, D., 174 Spath, D. P., 428 Spears, B. W., 332 Spector, B. D., 94 Spence, A. A., 13 Spilken, A. Z., 105 Spitzer, W. O., 264 Spivey, G. H., 401 Sporn, M. B., 95 Sproul, O. J., 406, 407 Spyridakis, D., 4 Squillacote, D., 256 Sridharan, N., 411 Srole, L., 69 Stanley, J., 228 Staples, R. E., 19 Stead, E. A. Jr., 253 Steel, K., 70, 74 Steffy, R. A., 116 Steigman, A. J., 268 Stein, K., 307 Stein, L. I., 459, 462, 463 Stellman, S. D., 89, 172 Stephen, U., 297 Stephenson, E., 61 Stepp, H., 333 Stern, B. J., 267 Stern, G. P., 332, 334 Stern, M. P., 165 Steurer, J., 63 Stevens, A. A., 393-95, 399 Stevenson, R. E., 410 Stewart, G. T., 240, 241 Stewart, R., 399 Stewart, R. B., 65, 71 Stewart, T. J., 242 Stewart, W. H., 267 Stilwell, J. A., 229, 233 Stoeckle, J. D., 257 Stokoe, I. H., 61 Stolley, P. D., 233-36 Stoltz, D. R., 9 Stone, D. B., 327 Stone, D. W., 352, 431 Stone, E. J., 327, 328 Stone, R., 434 Stone, R. E., 327, 328 Stone, R. W., 174 Storms, D. M., 262 Strain, J., 63 Straits, B. C., 104 Stralin, W. H., 411 Strasser, P. H., 96, 348 Strauchen, J. A., 348 Struba, R. J., 340, 344, 346 Sturrock, J. E., 13 Suffet, I. H., 412, 414 SULLIVAN, J., 249-76 Sullivan, J. A., 259, 261 Sultz, H. A., 258, 259, 261

Sun, X.-D., 87
Susser, M., 340, 342-44, 401
Sutherland, K., 427, 430
Swanson, M., 95
Swanson, T. E., 281
Swayne, M. D., 425
Sweatt, A., 257
Syme, J., 280
SYME, S. L., 179-99; 182, 184, 193
Symons, J. M., 393, 394
Szende, B., 15
Szklo, M., 93, 168

T

Tague, B., 238 Takalo, T., 165 Takeucchi, T., 10 Talbott, J. A., 459 Talcott, R. E., 432 Tan, M. E. R., 61 Tanaka, K., 313 Tandon, S. K., 11 Tannenbaum, J. S., 342 Tardiff, R. G., 354 Taube, C., 456 Taverner, J. M., 308 Taylor, A. K., 222 Taylor, H. Jr., 135 Taylor, J. D., 9 Taylor, J. M., 432 Telch, M., 329, 331, 332 Teltsch, B., 432 TenHoor, W. J., 463 Teplow, L., 203, 213 Test, M. A., 459, 462, 463 Thalken, C. E., 6 Thayer, P. S., 14 Theeravuthichai, J., 243 Thibodeau, L. A., 232, 233 Thino, I. D., 65 Thomas, C. B., 111, 112 Thomas, D. C., 33, 51 Thomas, G. H., 291 Thomas, J. A., 6 Thomas, J. F., 3 Thomas, R. E., 432 Thompson, D. J., 29 Thompson, E. L., 327 Thompson, R. S., 228 Thornton, G. F., 70, 71, 74 Thysen, B., 15 Tibblin, G., 168 Tierney, T. M. Jr., 230 Tilney, N. L., 71 Tinker, C., 173-75 Tobin, J. D., 60 Todd, D. K., 431 Toledo, A., 89 Tolkoff-Rubin, N. E., 238 Tombleson, J. B., 174, 175 Tomkins, S. S., 111-13

Tompkins, R. K., 237, 264 Tonomura, A., 306 Tooth, G. C., 461 Torchinskil, A. M., 7 Torkelson, T. R., 7 Tovey, G. H., 308 Tovey, L. A. D., 308 TOWNSEND, M., 153-78 Townsend, T., 237 Tremblay, J. W., 6 Trenholme, G. M., 234, 236 Trent, M. S., 13 Treon, J. F., 3, 19 Trichopoulos, D., 96, 180 Trimble, B. K., 279 Tripp, S., 273 Trotter, S., 456 Truex, J. H., 295 Trump, J. G., 388, 389 Tsuchiya, T., 17 Tuchmann-Duplessis, H., 8 Tukey, J. W., 38 Tullner, W. W., 3 Tuomilehto, J., 165 Tupasi, T., 235, 237 Turck, M., 238 Turner, J. A., 157 Turner, J. C., 463 Turner, R., 101 Tuthill, R. W., 370, 402, 403, 410

### U

Ulfelder, H., 93 Ungar, B., 329 Urbach, F., 90 Ury, H. K., 39, 45, 161

### V

Vacalis, T., 327 Vail, D., 213 van Breeman, A. N., 398 van der Meent-Oliemann, G. C., 398 Van Esch, G. J., 8 VanMiller, J. P., 6 VanPutte, A. W., 281 Van Ryzin, J., 79 Van Thiel, D. H., 12 Varga, P. A., 238 Varshavskaya, S. P., 11 Vavreckova, D., 180 Veale, A. M. O., 293 Vecchio, T. J., 231 Vedin, J. A., 168 Veenstra, J. N., 398, 410 Verschuuren, H. G., 8 Vertinsky, I., 230 Vertinsky, P., 230 Vestal, R. E., 74

Viale, R., 228, 232 Villeneuve, D. C., 7 Virtamo, J., 165 Visek, W. J., 3 Visser, S. A., 398 Vivell, S., 79 Vladek, B. C., 74, 75, 78 Vogel, L. C., 243 Vogt, T., 105, 122 Vogt, T. M., 104, 156, 158, 159, 165-67, 184, 193 Volcani, R., 8 von Koskull, H., 306 Vozovaya, M. A., 18

### W

Wackman, D. H., 333 Wagener, J. M., 264 Wagner, M., 104 Wahl, J. M., 106 Waitzman, N., 212 Wake, F. R., 186 Waldman, R., 232 Waldron, E., 111, 112 Wallace, C. A., 7 Wallace, W. C., 8 Walsh, D. S., 406, 407 Walsh, M. M. J., 297 Walter, S. D., 45, 46 Wan, T. T. H., 78, 79 Wang, M. L., 65 Ward, S., 333 Ware, G. W., 2-4 Warkany, J., 302 Warner, R., 291 Warren, K., 96 Waterman, G. E., 243 Wattis, J. D., 69 Way, J. W., 327 Weaver, L., 383 Weikel, J. H. Jr., 14 Weil, C. S., 5, 17 Weinberg, A., 327 Weinberg, A. D., 332 **WEINBERG, G., 153-78** Weinberg, M. S., 9 Weinberger, M. A., 14 Weinblatt, E., 168 Weiner, J. P., 235 Weinstein, M. C., 231, 233, 238-41 Weir, R. J. Jr., 11 Weisburger, J. H., 95 Weisfeld, J. R., 270 Weiss, C. F., 236 Weiss, R. R., 303 Weissert, W. G., 78, 79 Weitzman, S. A., 243 Welch, R. M., 3 Wells, C. E., 68, 69 Wells, H., 112

Werner, P., 413 Werner, W., 116 Westfall, B., 232 Weston, J. L., 269, 272 Westson, W., 262 Wetterlow, L. H., 241 Wharton, D., 219 White, C., 51 White, M., 333 Whitehead, J. E. M., 235 Whitehead, T. P., 228, 229 Whiteside, S. W., 262 Whiteside, T., 187 Whittemore, A., 46 Whorton, D., 7, 20 Whorton, R. S., 13 Widdowson, G., 104 Wiegand, R. G., 9 Wiesmeier, E. M., 7 Wilfert, C. M., 235 Wilhelmsen, L., 168 Wilhelmsson, C., 168 Wilkins, J. R., 341, 400, 401 Wilkins, J. R. III, 340 Wilkinson, G., 95 Wilkowske, C. J., 237 Willemain, T., 75, 79 Willems, J. S., 238, 242, 243 Willey, A. M., 312 William, D. C., 94 Williams, A., 135 Williams, C. L., 327 Williams, D. C., 186 Williams, G., 95 Williams, I. C., 329 Williams, R. B., 427, 430, 431 Williams, R. R., 158, 162 Williams, S. V., 228, 232 Williams, T. F., 78 Williamson, J., 61, 70, 71, 74 Williamson, J. W., 232 Williamson, L. G., 332 Wilner, N., 118 Wilson, J., 240 Wilson, J. G., 1 Wilson, R. W., 180 Wilson, S. D., 267 Wing, J. K., 450, 459 Winick, C., 332 Winn, D. M., 89 Winnick, M. P., 332 Winston, J. M., 8 Wittmann, R., 13 Wohlberg, A. W., 105 Wolcott, B. W., 264 Wolf, H., 403, 405, 408-10, 412 Wolf, H. G., 114 Wolf, M. A., 232, 233 Wolf, S., 114

Wolff, A. W., 340, 342,

Woller, L., 16

344

### 482 AUTHOR INDEX

Wolman, A., 371, 420 Wolman, G. M., 382 Wong, L. T. K., 297 Wood, J. R., 2 Wood, N. J., 205 Wood, P. D., 165 Wood, R. W., 264 Woodrow, J. C., 307 Woodruff, A. B., 116 Woodside, M. D., 5 Woodward, L. E., 453 Woodward, R. L., 366, 410 Woosley, E. T., 15 Wrenn, T. R., 2 Wright, R., 180 Wyatt, R. J., 449 Wylie, C. M., 67 Wynder, E. L., 30, 89, 95, 133, 134, 171, 172

Yabroff, I., 180 Yaffe, S. J., 12, 236 Yanai, R., 9 Yang, N. Y. J., 16 YANKAUER, A., 249-76; 252, 273 Yankelovich, D., 333 Yearick, E. S., 65 Yellin, J. A., 228 Yen, S., 96 Yoshikawa, T. T., 235 Young, A. L., 6 Young, D., 229, 233 Young, J. L. Jr., 86 Young, J. T., 18 Young, M., 60 Young, R. C., 93

Z Zeidenberg, P., 104, 105, 117 Zeman, F. J., 8 Zenz, D. R., 389 Zhalbe, E. P., 5 Zhiping, G., 16 Ziegler, R. G., 96 Ziel, H. K., 29 Zielezny, M., 258, 259 Ziffren, S. E., 71 Zilboorg, G., 452, 459 Zink, M. L., 407 Zusman, J., 459

Young, T. B., 340, 343, 344,

348, 354

Yuste, P. C., 180

# SUBJECT INDEX

A	Amaranth	Arthritis
Acetaldehyde	reproductive toxicity of, 9-10	elderly and, 65
formation of trihalomethanes	Amenorrhea	Artificial insemination
in water supplies and,	clomiphene and, 15	genetic screening and, 300
in water supplies and,	Ames test, 133	Asbestos
	Ammonia chloramines	carcinogenicity of, 92
Acetogenins	water disinfection and, 405	lung disease and, 202
beta-diketone reactions and,	Amniocentesis, 308-13	water quality control and,
396	cytogenetic abnormalities	370
Acetone	and, 310-11	Ascorbic acid deficiency
formation of trihalomethanes	neural tube defect detection	elderly and, 65
in water supplies and, 395	and, 302-3	Aspirin
Acetophone	Rh immunization and, 307-8	reproductive toxicity of, 15
formation of trihalomethanes	Amoebic dysentery	Asplenia
in water supplies and, 395	water quality control and,	pneumococcal vaccination
Acetylcholinesterase	363	and, 243
neural tube defect detection	Ampicillin	Atherosclerotic disease
and, 303-4	low-cost medical care and,	cigarette smoking and,
Acidemia	234	161–62
methylmalonic	Anemia	Autoimmune disease
prenatal diagnosis of, 313	aging and, 60-61	human leukocyte antigen
Acidulin	drug-precipitated intermittent	and, 277
urinary nicotine excretion	hemoglobin Zürich and,	Autosomal recessive inheritance
and, 121	283	recognition criteria for,
Activities of daily living	hemoglobin S and, 283	285-86
elderly and, 59	see also Sickle cell anemia	Autosplenectomy
Adenocarcinomas	Anencephaly, 301	sickle cell anemia and, 298
		Azathioprine
cervical and vaginal	patterns of inheritance in, 278	carcinogenicity of, 93
synthetic estrogens and, 93		Azoospermia
lung	Anesthetics	cytostatic agents and, 14
immunosuppressive	reproductive toxicity of, 13	DBCP and, 7-8, 20
therapy and, 94	Angina pectoris	
Aflatoxin	cigarette smoking and, 161,	B
liver cancer and, 96	162	
Agammaglobulinemia	exercise tolerance and	Bacillary dysentery
prenatal diagnosis of, 312	carbon monoxide and, 159	water quality control and,
Aging	Ankylosing spondylitis	362
disease and, 59-61	irradiation of	Bacteria.
Albinism 284	leukemia and, 91	water quality control and,
sunlight exposure and, 90	Annular pancreas	362
Alcohol	Down's syndrome and, 304	Bacterial infections
cancer and, 89, 169	Antihypertensive agents	decline in deaths from
esophageal cancer and, 96	reproductive toxicity of, 14	antimicrobials and, 233
reproductive toxicity of, 12	Antimicrobials	Bacterial pneumonia
Alcohol abuse	ambulatory use of, 237-38	decline in deaths from
elderly and, 69	oral	antimicrobials and, 233
Alcoholism	low-cost medical care and,	
employee assistance	233-38	Barber surgeons, 250 Barium
programs for, 221	reproductive toxicity of, 7	
Aldrin	use of, 235-37	water quality control and, 369
reproductive toxicity of, 3	Anxiety	
Alkaptonuria, 284	elderly and, 69	Benzene
Alkylating agents	AO hemolytic disease	carcinogenicity of, 91
carcinogenicity of, 93	pneumococcal vaccination	Benzo(a)pyrene
	and, 243	carcinogenicity of, 92
reproductive toxicity of, 14		Benzodiazepines
Alpha-fetoprotein	Apothecaries, 250	reproductive toxicity of, 13
neural tube defect detection	Arsenic	Beta-diketone reactions
and, 302-3	carcinogenicity of, 91	trihalomethane formation in
Aluminum sulfate	water quality control and,	water supplies and,
water disinfection and, 410	369	396-97

Bicarbonate urinary nicotine excretion and, 121 Biliary system cancer gallstones and, 95 immunosuppressive therapy and, 94 Biochemical oxygen demand biological treatment of wastewaters and, 373 **Bipyridyls** reproductive toxicity of, 6 Black lung workers' compensation laws and, 207 Black Lung Benefits Revenue Act of 1978, 208 Bladder squamous carcinoma of schistosomiasis and, 95 Bladder cancer chlorinated drinking water and, 346 cigarette smoking and, 170 immunosuppressive therapy and, 94 trihalomethane levels in drinking water and, 341 Bone marrow radiosensitivity of, 90 Boron reproductive toxicity of, 11 Branched-chain ketoaciduria low-phenylalanine diet and, 288 Breast cancer dietary fat and, 95 epidemiologic approach to, 85 radiogenic, 91 Breast tissue radiosensitivity of, 90 Bromine chloride water disinfection and, 404 Bromodichloromethane carcinogenicity of, 353-54 Bronchitis cigarette smoking and, 180 **Buccal** cavity cancer cigarette smoking and, 169 Burkitt's lymphoma Epstein-Barr virus and, 94

Cadmium reproductive toxicity of, 10 water quality control and, 369
Caffeine reproductive toxicity of, 14
Cancer causes of, 87–97

reproductive toxicity of, 15 Carbamate insecticides reproductive toxicity of, 5 Carbon water disinfection and, 412-14 Carbon chloroform extract standard for in drinking water, 426 Carbon monoxide clinical measurement of cigarette smoking and, 159 exercise tolerance in angina patients and, 159 Carbon tetrachloride cancer and, 393, 400-4 Carboxyhemoglobin clinical measurement of cigarette smoking and, 159 serum levels of cigarette smoking and, 158 Carcinoma radiogenic, 90-91 see also specific type Cardiovascular disease cigarette smoking cessation and, 161-69 Carmoisine reproductive toxicity of, 10 Carotene lung cancer and, 95 Case-control studies, 29-52 bias of pooled estimates in, 42 confounding and, 35-36 frequency distribution of cases and controls in, 39-40 hospital-based, 34-35 logistic regression in, 48-51 matching in, 38-43

cigarette smoking cessation

demographic patterns of, 86-87

drinking water and, 339-56

employee screening for, 219

environmental causes of, 88

municipal water supplies

epidemiologic approaches

and, 400-4

to, 85-98

organic contaminants in

ground water and,

trihalomethanes and, 393,

and, 169-72

epidemiology of

349-54

400-4

Cannabinoids

see also specific type

etiology of

methods of analysis in, 47-51 odds ratio estimates in, 47-48 overadjustment in, 37-38 population-based, 34 ratio ratio estimation from, 31-33 selection bias in. 36-37 stratification on study time and, 33-34 subject selection in, 43-46 variance and relative efficiencies in, 40-42 Catecholamines circulating nicotine and, 120 Cephalexin low-cost medical care and. 235 Cephalosporins low-cost medical care and, 234-35 Cerebrovascular disease elderly and, 64 Cervical adenocarcinomas synthetic estrogens and, 93 Cervical cancer race and, 87 venereal infection and, 94 Chemical pollutants water quality control and, 366-71 Chlorambucil carcinogenicity of, 93 Chloramphenicol misuse of, 236 Chlorine viral disinfection and, 362-63 Chlorine dioxide biocidal efficiency of, 409 toxicity and byproducts of, 409-10 water disinfection and. 408-10 water quality control and, 368-69 Chlorodibromomethane carcinogenicity of, 353-54 Chloroform cancer and, 393, 400-4 water quality control and, 367 Chlorophylls trihalomethane formation in water supplies and, 396 Chlorpromazine reproductive toxicity of, 12 Cholangiocarcinoma liver flukes and, 95 Cholera water quality control and,

Collective bargaining

demographic factors in,

reproductive toxicity of, 11 water quality control and, 369 Cholangiocarcinoma liver flukes and, 95 Chromosomal abnormalities disorders associated with. 304-7 frequency of, 280 among live-born infants, mental retardation and, 281 patterns of inheritance of, 278 Cigarette smoking cancer and, 87-89 lung cancer rates and, 87 medical perspective of, 153-76 mortality and, 135 public policy and, 129-49 action alternatives in. 140-49 aims and objectives of, 137-40 history of, 134-37 Cigarette smoking behavior initiation of media and, 187-89 significant others and, 186-87 social influences on. 185-96 maintenance of social influences on. 190-92 multiple regulation model of, 121-22 nicotine fixed effect model of, 120 nicotine regulation model of, 120-21 occupational patterns of, 183 pharmacologic models of, 120-22 psychologic control of, 101-24 psychologic model of, 111-13 psychosocial model of, 114-19 racial patterns of, 183 sex patterns of, 181-82 smoking maintenance model social influences on, 179-97 stages of, 111 stress and, 114, 118-19 teenage, 186-87 Cigarette smoking cessation cancer risk and, 169-72 cardiovascular disease and, 161-69

Chromium

occupational safety and, 160-61 environmental factors in, 160 212-17 health status evaluation and, Colon cancer chlorinated drinking water 155-61 and, 343, 346 lung function and, 172-76 dietary fat and, 95 medical impact of, 154 Confusion psychosocial variables in, elderly and, 61, 65 160 Congenital dislocation of the risk of death from heart attack and patterns of inheritance in, cardiovascular disease 278 and, 162 Congenital malformations social influences on, 193-96 incidence of, 280 Cigarette smoking cessation Congenital nephrosis programs high amniotic aversion strategies in, 106 alpha-fetoprotein levels comparing outcomes of, and, 303 103-5 Coronary artery disease current state of, 105-9 data acquisition and, 281 individual variation and elderly and, 64 smoking behavior Coronary heart disease change in, 110-22 cigarette smoking and, pharmacologic strategies in, 101-2 107 cigarette smoking cessation public health model for, and, 163-64 107 - 8Corticosteroids recidivism and, 109-10 carcinogenicity of, 93 self-control strategies in, 107 Cotinine treatment outcome clinical measurement of determinations in, 105 cigarette smoking and, Cirrhosis 159 pneumococcal vaccination Covert sensitization and, 243 cigarette smoking cessation Clean Water Act of 1977, 379, programs and, 106 382 Coxsackie virus Cleft lip and palate water quality control and, data acquisition and, 280 362-63 patterns of inheritance in, Cyanocobalamin 278 prenatal treatment of Clinical chemistry tests methylmalonic acidemia interventions to improve, and, 313 231-33 cost implications of, 233 hemoglobin M Saskatoon and, low-cost, 227-29 283 overuse of, 229-31 Cyclamates Cloacal extrophy, 302 reproductive toxicity of, 8 Clomiphene Cyclohexylamine reproductive toxicity of, 15 reproductive toxicity of, 9 Club foot Cyclophosphamide data acquisition and, 280 carcinogenicity of, 93 Coagulation reproductive toxicity of, 14 wastewater treatment and, Cystic fibrosis 180 genetic screening and, water disinfection and. 296-98 410-14 morbidity and, 281 Coal Mine Health and Safety Cytogenetic abnormalities Act of 1969, 207-8 prenatal diagnosis of, 310-11 Coal Mine Safety Act of 1952, Cytomegalovirus 207 Kaposi's sarcoma and, 94 Colchicine Cytostatic agents reproductive toxicity of, 14 reproductive toxicity of, 14

employee assistance patterns of inheritance in, D programs for, 221 278 DBCP Drugs Erythromycin reproductive toxicity of, 7-8 cancer and, 93-94 low-cost medical care and, prescription 234 reproductive toxicity of, 2-3 elderly and, 74 Esophageal atresia Dementia reproductive toxicity of, high amniotic see Senility 11-15 alpha-fetoprotein levels Depressants DTP vaccine, 239 and, 303 reproductive toxicity of, 11 Duchennes muscular dystrophy Esophageal cancer Depression morbidity and, 281 alcohol consumption and, 96 aging and, 61 cigarette smoking and, 169 prenatal diagnosis of, 312 Duodenal atresia elderly and, 68 race and, 87 Diabetes mellitus Down's syndrome and, 304 Estrogens aging and, 60 high amniotic endometrial cancer and, 29, biochemical screening for. alpha-fetoprotein levels 35, 38, 87, 93 228 and, 303 synthetic data acquisition and, 281 Dysentery cervical and vaginal human leukocyte antigens water quality control and, adenocarcinomas and, and, 286 362-63 pneumococcal vaccination Dyslexia Ethanol and, 243 data acquisition and, 280-81 reproductive toxicity of, 12 Dichlorvos Dysplastic nevus syndrome, 90 Ethylene dibromide reproductive toxicity of, 5 reproductive toxicity of, 8 Dieldrin Ethylene dichloride reproductive toxicity of, 3 reproductive toxicity of, 18 Diethiocarbamates Ewing's sarcoma Elderly reproductive toxicity of, 7 genetic factors in, 96 causes of death in, 64 Dihydropteridine reductase epidemiology of disease and deficiency disability in, 63-71 hyperphenylalaninemia and, health expenditures of, 56 290 health of, 55-80 Familial polyposis coli Diphtheria vaccine definition and genetic factors in, 96 see DTP vaccine measurement of, Fats Disability 57-71 dietary elderly and, 69-70 life expectancy of, 56-57 cancer and, 95 Disease long-term care for, 77-79 Federal Construction Safety aging and, 59-61 orientation and funding of and Health Act of 1969, Disinfectants 207 services for, 76-77 lethality coefficient of, 406 Federal Mine Inspection Act of utilization of health services Dispensers, 250 and, 71-76 1941, 207 **Diuretics** Electric shock Federal Safe Drinking Water serum thiocyanate levels and, cigarette smoking cessation Act of 1974, 426, 435-36 103 programs and, 106 Federal Water Pollution DNA Emergency medicine Control Act, 435 processes of, 282 physician's assistants and, Federal Water Pollution DOPA 256 Control Act of 1972, 386 hyperphenylalaninemia and, Feldshers, 250 Employee assistance programs, 290 220-21 Ferrate Down's syndrome, 304-7 Endometrial cancer water quality control and, estimated rates of, 305 dietary fat and, 95 368 lifetime institutional costs estrogen therapy and, 29, 35, Fiber for, 281 38, 87, 93 dietary mental retardation and, 281 Environmental agents cancer and, 95 prenatal diagnosis of, 308 reproductive toxicity of, 1-21 Filtration types of, 305-6 Enzyme immunoassay wastewater treatment and, Doxycycline cystic fibrosis screening and, 380 low-cost medical care and, 297 Flexner, 252 234 Epichlorohydrin Flocculation Drinking water reproductive toxicity of, 19 wastewater treatment and, cancer and, 339-56 Epstein-Barr virus 380 Drug abuse water disinfection and, cancer and, 94 elderly and, 69

Equinovarus

410-14

Hexavalent chromium

Fluorine hard water and, 370-71 Glucose-6-dehydrogenase deficiency water purification processes water quality control and, chlorine dioxide disinfection and, 369-70 369 Folate deficiency of water supplies and, Heart rate elderly and, 65 410 nicotine and, 120 Food additives Glucose-6-phosphate Heavy metal catalysts reproductive toxicity of, 8-10 dehydrogenase water quality control and, variants of, 283-84 Forced expiratory volume 368 cigarette smoking cessation Gossypol Heme and, 172-76 reproductive toxicity of, 16 trihalomethane formation in water supplies and, 396 Hemoglobin Malmö Fulvic acid Gout formation of trihalomethanes data acquisition and, 281 in water supplies and, Granular activated carbon polycythemia and, 283 water disinfection and, Hemoglobin M Saskatoon **Fumigants** 412-14 cyanosis and, 283 Hemoglobin S reproductive toxicity of, 7-8 Groundwater persistent anemia and, 283 **Fungicides** contamination control in, 372-73 reproductive toxicity of, 7 sickle cell anemia and, 283 Hemoglobin Zürich Guanethidine reproductive toxicity of, 14 drug-precipitated intermittent Guthrie test anemia and, 283 hyperphenylalaninemia and, Hemoglobinopathies Galactosemia 290 genetic counseling and, 315 low-phenylalanine diet and, prenatal diagnosis of, 300 288 Hemolytic anemia prenatal diagnosis of, 308 H chlorine dioxide disinfection screening programs for, 292 of water supplies and, Gallbladder cancer genetic factors in, 96 Habitual abortion 410 Hemolytic disease obesity and, 95 chromosomal abnormalities glucose-6-phosphate Gallstones and, 311 dehydrogenase and, Haloform biliary system cancer and, 95 283-84 Gangliosidoses formation of in water during Hemophilia chlorination, 395-96 genetic counseling and, 314 prenatal diagnosis of, 312 Gastrointestinal cancer Halothane Hepatitis A virus chlorinated drinking water reproductive toxicity of, 13 waterborne distribution of, Hard water and, 342 Genetic counseling, 313-15 heart disease and, 370-71 361 Hepatitis B infection Genetic disease Health hepatocellular carcinoma genetic counseling and, definition of, 58-59 and, 94 313-15 Health education definition of, 321 Hepatocellular carcinoma incidence of, 280 hepatitis B infection and, 94 prenatal diagnosis of, 308-13 school, 321-35 screening for, 286-308 Health maintenance trihalomethanes and, 394 organizations, 222 objectives of, 287 Herbicides reproductive toxicity of, societal costs of, 279-82 Health professionals new types of, 249-73 therapeutic modalities for, 5-6 Hereditary disorders 287 quality and costs of services of, 263-65 control of, 277-315 Genetic variation allelism and, 283-84 role differentiation and. genetic counseling and, 313-15 inborn errors of metabolism 261-63 see also specific type multifactorial conditions in, and, 284-85 mutation and, 282-83 300-4 Health programs prenatal diagnosis of, 308-13 labor-initiated, 217-18 recessive and X-linked inheritance and, 285-86 Health promotion see also specific disorder Herpes simplex virus type 2 Geriatric Evaluation Unit, 78 definition of, 321 cancer and, 94 Giardiasis Hearing loss water quality control and, employee screening for, 219 Hexachloro-(1,3)-butadiene reproductive toxicity of, 18 363 Heart attack low-density lipoprotein Hexachlorobenzene Glaucoma employee screening for, receptor variation and, reproductive toxicity of, 7 Hexachlorophene 277 219 Glucose tolerance Heart disease reproductive toxicity of, 7

elderly and, 64

aging and, 60

low-phenylalanine diet and, water quality control and, 369 288 Laryngeal cancer High-density lipoprotein **Iatrogenic illness** cholesterol elderly and, 70-71 cigarette smoking and, 169 cigarette smoking and, 160 Lead **Imipramine** Histidinemia reproductive toxicity of, 10 reproductive toxicity of, 12 water quality control and, screening programs for, 292 Immunoprecipitation assay 369 Histiocytic lymphoma cystic fibrosis screening and, Leukemia immunosuppressive agents 297 Down's syndrome and, 304 and, 93 Immunoreactive trypsin-like phosphorus 32 and, 91 Hodgkin's disease material pneumococcal vaccination radiogenic, 90, 91 cystic fibrosis screening and, thorotrast and, 91 and, 243 297 Immunosuppressive agents time-space clustering of, 94 splenectomized patients with Leukemogens antibody response of, 243 carcinogenicity of, 93 chromosome damage and, viral origin of, 94 Impotence 93 alcohol and, 12 Homocystinuria Life expectancy low-phenylalanine diet and, Inborn errors of metabolism, increase in, 56 288 284-85 sex and, 57 prenatal diagnosis of, 312 recessive inheritance of, 286 Liver angiosarcoma see also specific type screening programs for, 292 thorotrast and, 91 Industrial hygiene, 219-20 Human leukocyte antigen Industrial sludge Liver cancer autoimmune disease and, 277 water quality control and, aflatoxin and, 96 diabetes mellitus and, 286 alcohol consumption and, 89 388-89 Humic acid immunosuppressive therapy Infection formation of trihalomethanes and, 93, 94 cancer and, 94-95 in water supplies and, race and, 87 Infectious hepatitis 395 Lobeline sulfate Huntington's disease outbreaks of waterborne. cigarette smoking cessation 360-61 mental retardation and, 281 programs and, 107 Infectious hepatitis virus Hydrocephalus Longshoremen's and Harbor water quality control and, high amniotic Workers' Compensation 362-63 alpha-fetoprotein levels Act, 206 Infectious mononucleosis and, 303 Love Canal, 386 Hodgkin's disease and, 94 mental retardation and, 281 Intermittent claudication Lung cancer spina bifida and, 301 cigarette smoking and, 87, cigarette smoking and, X-linked 101, 169 161-62 prenatal diagnosis of, 312 nutrition and, 95 Isoniazid Hydrocyanic acid race and, 87 reproductive toxicity of, 15 reproductive toxicity of, 16 Lung disease Hydrogen peroxide asbestos and, 202 water quality control and, employee screening for, 219 368 Lung function Hydronephorosis Kaposi's sarcoma cigarette smoking cessation immunosuppressive therapy spina bifida and, 301 and, 172-76 and, 94 Hydroxytryptophan Lymphoma hyperphenylalaninemia and, Kepone histiocytic reproductive toxicity of, 4 290 immunosuppressive agents Hypercholesterolemia Ketoaciduria and, 93 branched-chain genetic counseling and, 314 time-space clustering of, 94 low-phenylalanine diet Hyperphenylalaninemia and, 288 heterogeneous causes of, Kruser, 252 286 M Kyphoscoliosis tetrahydrobiopterin spina bifida and, 301 metabolism and, 290 Malaria types of, 291 sickle cell anemia and, 278 Hypertension Malnutrition data acquisition and, 281 aging and, 61 elderly and, 65 elderly and, 65 Labor Management Relations Hypochlorite Act, 216-17 Maneb water disinfection and, 407 Lactose intolerance reproductive toxicity of, 7

Manic-depressive disorders chronic mental disability Multiple Risk Factor syndrome of disability and, and, 450-51 Intervention Trial, 104, community care for, 454 109, 122-23, 158, 165, Maple syrup urine disease Mental retardation 166, 167, 172, 183, 193 Municipal sludge screening programs for, 292 data acquisition and, 280 Marfan syndrome Down's syndrome and, 304 water quality control and, institutionalization and, 281 387-88 dominant inheritance of, 286 phenylketonuria and, 288, Mastitis Mustard gas carcinogenicity of, 91 293 irradiation of X-linked, 281 Mutation, 282-83 breast cancer and, 91 prenatal diagnosis of, 312 Myocardial infarction Maternal-fetal interactions, Mental Retardation Facilities cigarette smoking and, 101, 307-8 and Community Mental 161 Meckel syndrome, 302 Health Construction Act cigarette smoking cessation Meconium albumin of 1963, 455 cystic fibrosis and, 297 after Meprobamate long-term prognosis and, Medex, 252 168-69 reproductive toxicity of, 13 MEDEX Program, 253 Mercury elderly and, 61 Medical assistants, 255 reproductive toxicity of, 10 Medical care Metal and Non-Metallic Mine low-cost, 225-44 Safety Act of 1966, 207 cost reduction in, 237-38 Nasopharyngeal cancer Metals diagnostics in, 227-33 Epstein-Barr virus and, 94 reproductive toxicity of, inexpensive therapy in, 10-11 genetic factors in, 96 233-38 National Mental Health Act of Methadone preventives in, 238-44 1946, 453-54 reproductive toxicity of, Medical diagnostic practices 11-12 Nematodes low-cost, 227-33 Methemoglobinemia water quality control and, Melanoma 366 water purification processes immunosuppressive therapy and, 369 Neoplasms hereditary, 96 Methoxychior sunlight exposure and, 87, 90 irradiation of reproductive toxicity of, 3 Melphalan Methyl salicylate leukemia and, 91 carcinogenicity of, 93 Neural tube defects, 301-4 reproductive toxicity of, 9 Mendelizing phenotypes, 279 Methylmalonic acidemia causes of, 302 Meningitis prenatal diagnosis of, 313 data acquisition and, 280 decline in deaths from genetic counseling and, 314 Methylmercury antimicrobials and, 233 mental retardation and, 281 reproductive toxicity of, 10 pneumococcal patterns of inheritance in, Methylumbelliferyguanidinobensickle cell anemia and, 298 278 zoate Meningococcal meningitis periconceptual vitamin cystic fibrosis screening and, decline in deaths from supplementation and, 297 antimicrobials and, 233 304 Methylxanthines Meningomyelocele see also specific type reproductive toxicity of, 14 patterns of inheritance in, Metropathia hemorrhagica Neuroamine levels 278 nicotine and, 120 irradiation of Mental health Neurofibromatosis leukemia and, 91 elderly and, 68-69 genetic factors in, 96 Midwiferv. 250-51 Mental health services Neuroleptic drugs Minamata disease elderly and, 74-75 congenital malformations prevention of chronic social Mental Health Study Act of breakdown syndrome and, 10 1955, 454 and, 448-49 Mirex Mental illness reproductive toxicity of, 4 Neuroticism cigarette smoking behavior Monosodium glutamate deinstitutionalization and, reproductive toxicity of, 9 and, 115 445-65 Morphine Newborn screening programs community psychiatric costs of, 292-93 reproductive toxicity of, 11 services and, 452-54 Mosaicism, 305-6 cystic fibrosis and, 296-97 responsibility of states and, sickle cell anemia and, 298 Multiple myeloma 452

pneumococcal vaccination

and, 243

race and, 87

Mental patients

chronic

catecholamine discharge and,

162

reproductive toxicity of, 12 Nitrosamines cancer and, 95 Nitrous oxide reproductive toxicity of, 13 Nonpoint pollution water quality control and, 385-86 Nurse associate, 252 Nurse midwifes, 265-67 deployment of, 266-67 Nurse pediatrist, 252 Nurse practitioners, 257-61 current status of, 258-61 deployment of, 259 programs for by type and speciality, 260 programs for by type and year of cohort, 259 role differentiation and, 261-63 Nurse specialist, 252 historical background of, 251 Nursing homes elderly and, 75 Nutrition cancer and, 95-96 Obesity gallbladder cancer and, 95 Obstructive respiratory disease data acquisition and, 281 Occupation cancer and, 91-92 Occupational health programs, 218-21

employee counseling services in, 220-21 health care facility acquisition in, 221-22 industrial hygiene services in, 219-20 labor-initiated, 217-18 medical services in, 218-19 Occupational risk labor initiatives and, 212-18 labor-management aspects of, 201-23 management initiatives and, 218-22 protective legislation and, 203-12 worker's compensation legislation and, 204-6 Occupational Safety and Health Act, 202, 208-12 Officiérs de sante, 250 Oligomenorrhea clomiphene and, 15 Oligospermia

cytostatic agents and, 14 **DBCP** and, 8, 20 **Omphalocele** high amniotic alpha-fetoprotein levels and, 303 Oral contraceptives carcinogenicity of, 93 Organic brain syndromes elderly and, 68 syndrome of disability and, 448 Organochlorine insecticides reproductive toxicity of, 2-4 Organophosphates reproductive toxicity of, 4-5 Orsellinic acid acetogenin breakdown and, 396 Osler, 252 Osteosarcoma radium 224 and, 91 Ozone biocidal efficiency of, 405-7 toxicity and byproducts of, 407-8 water disinfection and, 405-8 water quality control and, 368

Pancreatic cancer
race and, 87
trihalomethane levels in
drinking water and, 341
Paranoia
elderly and, 69
Paraplegia
spina bifida and, 301
Penicillin
low-cost medical care and,
234
Penicillin G
low-cost medical care and,
234
Penicillin V
low-cost medical care and,

Penicilin G
10w-cost medical care and,
234
Penicillin V
10w-cost medical care and,
234
Pepsinogen I
serum levels of
peptic ulcer and, 277
Petic ulcer
pepsinogen I serum levels
and, 277
Perforated ulcer
elderly and, 61
Permanganate
water disinfection and,
411-12
Personal control

cigarette smoking behavior

and, 115-17

Personal security
cigarette smoking behavior
and, 115
Pertussis vaccines, 239-41
assessment of, 240-41
Pesticides
reproductive toxicity of, 2-8
water quality control and,
367
Pharmacogenetics, 278
Pharyngeal cancer
cigarette smoking and,
169
Pharyngitis

cost-effective approach to, 237 Phenobarbital reproductive toxicity of, 12 Phenotypes Mendelizing, 279 Phenoxy compounds reproductive toxicity of, 5-6 Phenylalanine hydroxylase phenylketonuria and, 284, 289 Phenylketonuria

biochemical screening for, 228 genetic screening and, 288-93 incidence of, 289 low-phenylalanine diet and, 288 maternal, 289-90 phenylalanine hydroxylase activity and, 284 treatment for, 289 Phloroacetophenone acetogenin breakdown and, 396 Phthalate esters

17-18
Physician maldistribution, 252, 268-69
Physician's assistants, 253-57 current status of, 254-57 deployment of, 256 role differentiation and, 261-63 training programs for accreditation and federal funding for, 255

reproductive toxicity of,

cystic fibrosis screening and, 297
Platelet aggregation cigarette smoking and, 162
Pneumococcal infection sickle cell anemia and, 278
Pneumococcal pneumonia vaccines for, 241–44

Pilocarpine iontophoresis

Pneumococcal vaccines, 238, 241-44	Pyrolysis sludge stabilization and,	causal assumptions of, 323-24
assessment of, 242-44	387-88	enabling factors and, 329-31
Pneumoconiosis	307-00	predisposing factors and,
federal compensation	R	326-29
program for, 207 Pneumonia		reinforcing factors and,
cigarette smoking and, 180	Radiation	331-32
elderly and, 61	cancer and, 90-91	scope of, 324–26 Scrotal cancer
Poliomyelitis	reproductive toxicity of,	epidemiologic approach to,
outbreaks of waterborne,	16–17	85
360-61	Radiogenic leukemia, 90	Sedatives
Poliomyelitis virus	Radon	reproductive toxicity of, 12
water quality control and,	carcinogenicity of, 92 Rectal cancer	Sedimentation
362-63	chlorinated drinking water	wastewater treatment and.
Pollutants	and, 343, 346	380
water quality control and,	Mississippi River water and,	Selenium
366-71	345	water quality control and,
Pollution	Red dve no. 2	369
cancer and, 92-93	reproductive toxicity of, 9-10	Senility
nonpoint	Renal failure	aging and, 61
water quality control and, 385-86	pneumococcal vaccination	elderly and, 68
Polychlorinated biphenyls	and, 243	Serum creatinine levels
reproductive toxicity of, 17	Renal function	aging and, 60
Polycyclic hydrocarbons	aging and, 60	Service Contracts Act of 1965
carcinogenicity of, 92	Renal transport disorders	207
Polycystic kidney	screening programs for, 292	Sewer overflows
morbidity and, 281	Reproductive processes	surface water contamination
Polycythemia	toxic environmental agents	and, 384–85
hemoglobin Malmö and, 283	and, 1-21	Sickle cell anemia
Polydimethylsiloxanes	Resource Conservation and	genetic screening and,
reproductive toxicity of, 18	Recovery Act of 1976, 388	298-300
Potassium permanganate	Respiratory infection viral	hemoglobin S and, 283
water quality control and,	antimicrobial therapy and,	morbidity and, 281
368	235	pneumococcal infection and 278
Premenopausal women	Retinoblastoma	pneumococcal vaccination
pneumococcal vaccination	genetic factors in, 96	and, 243
and, 243	Retrovirus	Silver
Preventive medicine	T-cell leukemia and, 94	water quality control and,
genetic variation in susceptibility to	Rhesus incompatibility, 307-8	369
environmental agents		Single-gene diseases
and population genetics	S	frequency of, 280 mental retardation and, 28
and, 278		patterns of inheritance in,
Primary care	Saccharin	278
definition of, 249	reproductive toxicity of, 9	Skin cancer
Primex for the nurse	Salmonellosis	sunlight exposure and, 90
practitioner, 252	water quality control and,	Sludge
Prostatic cancer race and, 87	362 Sarcoma	water quality control and,
Protozoa	soft-tissue	387–89
water quality control and,	immunosuppressive	Social breakdown syndrome
363	therapy and, 94	chronic
Psychotropic agents	Schistosomiasis	prevention of, 448-50
reproductive toxicity of, 12	squamous carcinoma of the	Spermatogenesis
Public health	bladder and, 95	clomiphene and, 15
water quality control and,	Schizophrenia	Spina bifida
359-91	data acquisition and, 280	complications of, 301-2
Pyloric stenosis	syndrome of disability and,	ultrasonography and, 304
data acquisition and, 280	448	Spontaneous abortion
	School health education.	amniocentesis and, 309
patterns of inheritance in,		

Steroidogenesis CNS depressants and, 11 Stomach cancer nutrition and, 95 race and, 87 Stress cigarette smoking behavior and, 114, 118-19 Stroke cigarette smoking and, 161 elderly and, 64 Subacute bacterial endocarditis decline in deaths from antimicrobials and, 233 Subassistant surgeons, 250 Sudden death cigarette smoking and, 101, 161 Sunlight cancer and, 90 Surgeon's assistants, 255 Surgery physician's assistants and, 256 Surgical technologists, 255 Syniatrist, 252 patterns of inheritance in, 278 Tannic acid reproductive toxicity of, 15-16 Tay-Sachs disease genetic screening and, 293-96 mental retardation and, 281 TCDD reproductive toxicity of, 5-6 Testicular cancer genetic factors in, 96 Tetanus vaccine see DTP vaccine Tetracycline low-cost medical care and. 234 misuse of, 236 Tetrahydrobiopterin metabolism hyperphenylalaninemia and, 290 Thalidomide embryopathy, 302 Theobromine reproductive toxicity of, 14 Theophylline reproductive toxicity of, 14 Thiocyanate levels clinical measurement of

ciagrette smoking and,

measurement of cigarette smoking cessation programs and, 103-4 Thrombogenesis cigarette smoking and, 162 Thrombotic stroke cigarette smoking and, 161 Thyroid cancer radiogenic, 91 X-ray exposure and, 87 Thyroid tissue radiosensitivity of, 90 Tinea capitis irradiation of thyroid cancer and, 91 Tobacco cancer and, 87-89 Toxaphene reproductive toxicity of, 4 Toxic Substances Control Act. 377-78 **Tranquilizers** reproductive toxicity of, 12, 13 Translocation Down's syndrome, 305-6 Tricylic antidepressants reproductive toxicity of, 12 Trihalomethanes cancer and, 393, 400-4 carcinogenicity of, 92 formation of in water supplies, 395-99 water quality control and, 367-69 Trisomy 13 syndrome, 302 Trisomy 21, 305-6 Tuberculosis irradiation of breast cancer and, 91 Turner syndrome high amniotic alpha-fetoprotein levels and, 303 Typhoid fever water quality control and, 362 Tyrosinosis, 284 screening programs for, 292

neural tube defect detection

prenatal diagnosis of hereditary disorders and, 309-10 Ultraviolet radiation water quality control and, 368

Ultrasonography

and, 303-304

Urethritis cost-effective approach to, 237 Urinary bladder cancer chlorinated drinking water and, 346 see also Bladder cancer Urinary incontinence elderly and, 61 Urinary tract cancer chlorinated drinking water and, 342 Urinary tract infection low-cost therapy for, 238

Vaccinators, 250 Vaccines see specific vaccine Vaginal adenocarcinomas synthetic estrogens and, 93 Vinblastine reproductive toxicity of, 14 Vinyl chloride carcinogenicity of, 91 Vinylidene chloride reproductive toxicity of, 19 Viruses water quality control and, 362-63 Vitamin A lung cancer and, 95 Vitamin B<sub>12</sub> prenatal diagnosis of methylmalonic acidemia and, 313 Vitamin C urinary nicotine excretion and, 121 Vitamin deficiency elderly and, 65 Vitamin E reproductive toxicity of, 16 Vitamin supplementation neural tube defect prevention and, 304

Walsh-Healy Public Contracts Act of 1936, 206 Waste liquors water quality control and, 388-89 Wastewater land applications of, 381-82 Wastewater disposal, 373-89 priority problems in, 375-76 wastewater treatment and, 378-81

water quality objectives and, 376-78 water quality surveillance and, 382-83 Wastewater reuse aerosols and, 432-33 agriculture and, 433-34 as a wastewater resource, 421-24 direct potable, 425 health consequences of,

419-41 indirect potable, 425-26 public policy and, 434-40 synthetic organic compounds and, 430-32

treatment technology and, 427-29

Water see Drinking water Water disinfection, 393-415 alternative methods of,

404–14
chlorination and, 393–99
chlorine dioxide and, 408–10
flocculation and, 410–14
ozone and, 405–8
Water quality control, 359–91

chemical contaminants and, 366-71 combined sewer overflows

and, 384-85 dual water supplies and,

371-72 groundwater and, 373-73 land application of

wastewater and, 381-82 management of residuals and, 386-89

microorganisms and, 362-66 nonpoint pollution and, 385-86

objectives of, 376-78 wastewater disposal and, 373-89

wastewater treatment and, 378-81

Water supplies epidemiology of cancer and, 400-4 formation of trihalomethanes

in, 395-99 Waterborne disease viral, 360-61 Worker's compensation legislation, 204-6 Worms

water quality control and, 366

X

X-linked disorders prenatal diagnosis of, 312 X-linked inheritance recognition criteria for, 285-86 Xanthophylls trihalomethane formation in

water supplies and, 396 Xeroderma pigmentosum genetic factors in, 96 sunlight exposure and, 90

Z

Zearalenone reproductive toxicity of, 16 Zinc reproductive toxicity of, 11 Zineb reproductive toxicity of, 7